



SEQUENCE LISTING

<110> Arigen Inc.
LILERTSEN, KENNETH J.
PFISTER-GENSKOW, MARTHA
CHILDS, LYNETTE
FORSYTHE, TODD
BISHOP, MICHAEL D.

± 7

<120> IDENTIFICATION AND USE OF MOLECULAR MARKERS INDICATING
CELLULAR REPROGRAMMING

<130> 028040-0202

<140> 09/876,143

<141> 2001-06-06

<150> 60/209,874

<151> 2000-06-07

<160> 1744

<170> PatentIn version 3.0

<210> 1

<211> 26

<212> DNA

<213> Bovine

<400> 1

aagcagtgtt aacaacgcag agtact

26

<210> 2

<211> 30

<212> DNA

<213> Bovine

<400> 2

aagcagtgtt aacaacgcag agtacgcggg

30

<210> 3

<211> 23

<212> DNA

<213> Bovine

<400> 3

aagcagtgtt aacaacgcag agt

23

<210> 4

<211> 46

<212> DNA

<213> Bovine

<400> 4

tctagtcgac ggccagttaa ttgtaatagc actcactata gggcgt

46

<210> 5
 <211> 272
 <212> DNA
 <213> Bovine

<400> 5
 aatttggcac gagactcatt tacgaaaccg ggctggaacc gcagctgtcg cggatctgaa 60
 cgcgagctgt tcctgtgggt gcgcagctac cttgctgcgg acagctgagg gaaaaaggaa 120
 gatggggtct tttgtctcat ttttgaaacc tcggaaaact gtcaccatgc cccactccta 180
 cccaccctt tctgttgagc agaaaaaaga gatgttcgac attgccctgc gggttgtggg 240
 gccaaagcaa agcattctgg ccgcaatgaa aa 272

<210> 6
 <211> 489
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(489)
 <223> n is a, c, g, or t

<400> 6
 ctcgaggtgg acaccaccct caagagcctg agccagcaga tcgagaacat ccggagccct 60
 gaaggcagcc gcaagaaccg cggccgcacc tgccgtgacc tcaagatgtg ccaactctgac 120
 tggaagagcg gagaatactg gattgacccc aaccaaggct gcaacctgga tgccattaag 180
 gtcttctgca acatggaaac cgggtgagacc tgtgtatacc ccactcagcc cagcgtggcc 240
 caaaagaaac tgtatatcaa caagaacccc aaggaaaaga gcacgtctgg gacggcgaga 300
 gcatgaccgg cggattccaa gtcgagtatt gcggcagagg tccgatcctg ccgatgtggc 360
 catccagctg acttttctgc gcctgatgtg caccgaggcc tctcaaatca tcaattacac 420
 tgcagtacac gtggcctaca tgaccacaga ctggcactca agaggccctg ctctcaggct 480
 cacgaatng 489

<210> 7
 <211> 499
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(499)
 <223> n is a, c, g, or t

 <400> 7
 gcacgaggca acctcacgct gcgggactac agcggacagg gagtcgtgaa actggacgtc 60
 cagccgaagt gcttggccgt cggccccggg ggctacaccg tggtcgtgtg cattggccag 120
 atcgttctgc tgaaggacca gaggaagtgc ttcagcatcg acaaccccgg ctatgagccc 180
 gaagtagtgg ccgtgcaccc gggtagtgag acagtggccg tcggggcgcg gatggaacgt 240
 ccgncctctac tcctcctggc accacgctga agacgaggnc agctctggag ccaaggcccc 300
 ggccgactgg cgtttccac gacgcgcctt ctgctggtgc gaccacaag tgtcacgtct 360
 cacgttgcca cgctatcgag acacgtttta tgacacacaa gatgttgctg ccgtctcgac 420
 acacattgct ggtgctgaat atggatggtg acctgagact aacagtanat caatgcacgt 480
 ccatgacatg ctgtgaaac 499

<210> 8
 <211> 602
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(602)
 <223> n is a, c, g, or t

 <400> 8
 cctcagctgc cccaccagc tcctggggtc caccaccag caccagtggc ccaccacca 60
 gcctcggggc gcatccccct gctcctggg ttcatcccc agctcctggg gtccaccccc 120
 cagcaccagt ggttcaccca ccagcatctg gggccaccc ccagctcca ggggtccacc 180
 ctccagcccc aggagtccac cctcctgctc cgggagtcca ccctccagcc ccaggggtcc 240
 atcctcccc atctgctggc gttcaccccc agacaccagt ggtgcaccca ccagctcctg 300
 cagttcacc ccnagctcgg ggggtcaccc aactcctgca gttcaccccc angctccagg 360
 gntccacca ccagctccgg ngctccacca ccagcccctg gnatccacc cagcctctgg 420
 ngtcaccn ctctctgng tcctctccgc tctgggtcca tccagcactg nggtcaccc 480

caatctggtg cattcccaca cctgcccgtg ctgagcccca tacctcgagc ctggacttct	540
ccctcccaca ctgaacaccc tactcgttgt ttgttttggg tgcctaaaaa ttttgtgctg	600
gg	602

<210> 9
 <211> 491
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(491)
 <223> n is a, c, g, or t

<400> 9	
gcacgagggt catcaagggt cagttggcag tccaggccct gcaggcccca gaggacctgt	60
tggacctacg ggccccctgg caaggacgga gcaagtggac accctgggtcc cattggacca	120
ccggggcccc gaggtaacag aggtgaaaga ggatctgagg gctccccagg ccaccagga	180
caaccaggcc ctctggacc tcttgggtgcc cctgggtccat gttgtggtgc tggcgngtt	240
gctgccattg ctggtgttgg agccgaaaaa gctggtgggt ttgccccata ttatggagat	300
gaaccgatag atttcaaate acaccgatga gatatgacct cactcaatca ngtcattggac	360
aaatagaagt ctcatagtc tgatggtttc cgtataaccn tgcacggact gcaggnacct	420
gaatctgcca tctgactcag atggagatat gnngtgtatc taccaagntg caaatgatgc	480
ttttagtcta t	491

<210> 10
 <211> 532
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(532)
 <223> n is a, c, g, or t

<400> 10	
taaacccaag cccttgacct cttacaggag ctttgtctgc cctcttaata acatccggcc	60
taaccatgtg atttcacttt aactcaatga ccctgctaata aattggccta acaacaaata	120
tactaacaat ataccaatga tgacgagatg ttatccgaga aagcaccttc caagggcacc	180
ataccccagc tgtccaaaaa ggcctccgtt atggaataat tctttttatt atctccgaag	240
tactattctt tacngnatth tctgagcttt ctaccactca agcctcgccc ccaccctga	300

actanngcgc tgctgacccc cacnagcatt caccactaa acccctanaa agtccactgc 360
 tcacacctct gtcctatggc ttctggagtt ctatttactg agccatcata tttatagaag 420
 ggacgaagct atatacagcc ttttttcaca tacatagatc tatcacacta tcanctcaat 480
 attgagcact tattctcgag ngttacgtca ttttgtacca gctccgctcc tc 532

<210> 11
 <211> 346
 <212> DNA
 <213> Bovine

<400> 11
 gcacgaggag atggcgggtg acgacaagca catggtcaag cagttctgcc aggagggcca 60
 gccacatgtg ctggagctct gtccacccaa cctagcctac ccacaatggt aaaccagggg 120
 gagatgaagc cctacacagg caccgagacc ttactatgc cctatgattt cgcgatcatt 180
 accaccgacc tattaccgac cacctatggg gaccatcatg gcgttacgcg gagatagccg 240
 acccatggag ggaagaattg tgtgagtatt aatcacaatg ataacttgga atgactgtct 300
 atattttaag gtagttgttt ttggtttagt cctatctgga gagtga 346

<210> 12
 <211> 617
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(617)
 <223> n is a, c, g, or t

<400> 12
 ggccagtcct ctaccctcac ttcaggctct cagatcccaa ctcttgctcc actcgtcgag 60
 cgttaactga tgttatgggt taagtagtgc tgaaattttg gtggctaata tgcctccacc 120
 cctagccaca gagatccctt ttttgaggga atgactcgcg atgaagacga agatgatgag 180
 gaagaggaag aagaaggagt cacgtggggc cgtgggaact cgaggtttga gggccccag 240
 tccccgagg aatttagctt tggcttcagc ttcagcccaa gaggaggaat gcgtttccac 300
 gataacttcg nctttgatga cctaatacgg natttcaata acatcttcag cgagatggng 360
 gcctggacct tgccttcccg cccctctgta cttccaggtc ctgagtcaga gacacctggt 420
 gagagacggc agtaggacag acgcttcgga ctcatgcttt attatncana tatcacagcc 480
 cagacttngt ggggctggna aggagcanga ctgtatctcc aacacaccga cgtgccncca 540

aactttctag ntgtgaactg nctgacccccc tctaacagaa aaatgatttt ttcagtttca 600
gagtttgcca ttgggcc 617

<210> 13
<211> 547
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(547)
<223> n is a, c, g, or t

<400> 13
gcacgagggt gagcaagccc actctgctgg catcacctcc tgctcagggt ttctctgcc 60
gcacagcccg gcttgggtca agtggtcaga gtatgtggcc atcttgtcac cagcggaagg 120
aacgtgcagg gaacatcgct gctctggttg actgacaggc tgggctgcag agcggctcct 180
ggagcagctc aaggcctgcg agctgcagga tgaggctgac atgcagcggg agttcccgca 240
tggcccaggc cctgggctgt gcaggggact cngatgagga gttcaccagc tgctaccag 300
accaccccga gacctgcac ttngcaccat gacgatatca caggacaagg ctgtcttcat 360
ggagggccat gttcttgtgt ccacagtgc ctgagtcact gaggtttatg cacagactng 420
tggtcaataa cggntgtgta gccagtcact ggtgagtanc caacacgtgg tttttcgaac 480
aggcagcgtc aggctgaagt ggaagaatca gatgttacag aacgatcacc caactcacgt 540
gttgtct 547

<210> 14
<211> 566
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(566)
<223> n is a, c, g, or t

<400> 14
gcacgagggt ccacagttca aaagaccct ttcatcacca accctgggta tgacactgga 60
aacggtattc agcttcccg cacttctggt cagcagccca gtcttgggca acaaatgatc 120
tttgaggagc atggtttttag gogaaccaca ccgccacca cggccacccc cgtaaggcat 180
aggccaagac cgtatccgcc gaatgtaaat gaggagatcc aaattgggtca tgtccccang 240

ggagacgtag accatcatct ctaccctcac gttgtgggac tcaantccaa tgcttctacn 300
 agccaagaag ctctctctca nacaaccatc tcatggaccc cattnccaga aagctctgag 360
 tatatcattt catgtcattc agttggcatt gatgagaacc ttacagttcg agttctggat 420
 cttgctaggc cacctgacgg cctcacagag gnccactaca catatatgag gagtaaagac 480
 cacgagcaga agtgcggnagn tggtagctgg catctgtgac aggcgatcac ccaagatctg 540
 ttcacctacg ntccattgct ggagan 566

<210> 15
 <211> 556
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(556)
 <223> n is a, c, g, or t

<400> 15
 ttgcaaagac actaggaaaa cggctcttctt tgctaggctc tcaagatgag gcttggccga 60
 acaggttctg ttactatctt taccttcaca gttatcgta gttccatag tttgtcaaaa 120
 cacagacatc tctcggtccc cagctagaaa gcaatagggt aaattctaaa agctgtttgc 180
 tttttcgtct tcgcctttta atccttgga gttatctctt cctgctcccc tacagtatat 240
 atggttgga aactgtgaaa ggaagaaggn gtggtctgtn agggaaactc atccatgggg 300
 cctnctagag cgggtgtngt gttcctacac cactccctc tcagcagaag ggctgcacac 360
 acatacaca gagaacttcg ccttcctttt tcaactncca cttcccacca tgcttcgttt 420
 actactagat gagagttatg accacagctc tanacgttac gctttgtatt attaatttca 480
 tacatanaca tcttgtctac accanactac atagtcgttg tctatacttt atataggnta 540
 gngggatgta cttata 556

<210> 16
 <211> 534
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(534)
 <223> n is a, c, g, or t

<400> 16
 gcacgaggca tgactgacaa tgatcttacc aatattcttg acccttttta tcatctttca 60

actaaaagtt tcaaaacaca actttttatca caatccagaa ctgacaccaa caaaaatatt	120
aaaacaaaac accccttgag aaacaaaatg aacgaaaatt tatttacctc ttttattacc	180
cctgttattt taggtctccc tcttcgtacc cttatcgtac tattcccaag cctactattc	240
ccaacatcaa accgactagt aagcaatcgc tttgntaccc tccacaatga atacttcaac	300
ttgtatcaaa acaaaaatga gtatccacaa ttctaaagga caacatgaac attatattat	360
attctgatnc tatttttttga tcatcaatct actagcctat acccattctt tccaccacac	420
acactatcat aactagctac cctccctgtg gcgnagcgga tcagatcgca tatatagcta	480
ctgccttttt accagacacc ctccatcat ctnatttgat ttactttttt tctn	534

<210> 17
 <211> 611
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(611)
 <223> n is a, c, g, or t

<400> 17	
aataaaaaat actatgacta aaattactgt ggttgagaaa tttgggtaat ttatagtacc	60
agtgttcaga aatcttccta acttgtattt ggtaacccaa gtaaacaatt tcagctaato	120
tcagatggat tattttactt atgaaatttc tctgttcact ttctcttctt tatcctgctt	180
cacagctttt ggggtgttgcc acatgataaa gtatcatatc aactctagat gattaggcag	240
aanattttta tcaaagtcaa gngttacttt ttagcaactg ggtaaaggna agnngactaa	300
tagctgcttc attanaaaga aactcaaaaa tatacagntc tctttantag acatagcata	360
cagcatacag ttcttcacta gatattgctt agatgttacc acttctttgc actattctaa	420
agatgaaaca gaanataaac tactanaaca caggcagaat ctctctatgt ttattctttg	480
ctcaaactgg gcttgatnag gttctactga accactacct tttntgtaga caggcaatta	540
cggagattat aagtctttta gccttcccac caaattttta atgctttttt ctacagcatt	600
aaaattaatg t	611

<210> 18
 <211> 594
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(594)
 <223> n is a, c, g, or t

 <400> 18
 gcacgagggg acagaggccg gctcccggag ccagctgagt tgcggcctct acgacatgtc 60
 ggcgcaccag cagggcacgg agctcgacct tagctggatc tccaaaatac aagtgaataa 120
 accagcagtg ctaagacgtg cagaacaaat ccaggctcgt agacctgtga aaaaggagtg 180
 gcaggctgca tggctcctga aggctgttac ctgtatagat cttactacac tntcagggtga 240
 tgacacagct tccaacattc aaaggctgtg ttataaagcc aagtatccaa tccgggaaga 300
 cctcttaaaa gctntaaata tgcattgataa aggcattcact acagctgccg nttgtgggta 360
 tcctgcccgc gngngngatg cagtgaagagc tctaaggctg cggctgtgac atcccatggc 420
 atcagggggc ctggcttccg ctgcacagac tcattgatac acgattagag aatagatggn 480
 cgggnagagg gctacggaat gagggnggat aacagactgg gctgcagcca ggaagccgnt 540
 gagagacgca gtgcaggcgg ggagcatcca acatctacca gaatgatctc caan 594

<210> 19
 <211> 533
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(533)
 <223> n is a, c, g, or t

 <400> 19
 gcacgaggaa attatttact aaactaaacc ttaggaaaag atgttttgca tcagtcttaa 60
 taggcaaaaa gttcatgctt agtgactgga gagatttttg cttatagctt ttccctctat 120
 aaatactatc tagaatgaaa gctaatttag gaacaagact aacattcaaa aaacccttag 180
 tgcatatatt tttaattatt attagctcat tattagatca tttattntca tctgtatttg 240
 ccattaaaat ttatttgcct ttatatcttt agaatttga gtttgtgtct ttctgtttat 300
 cattgctaca agttttataa aaagaacctt cactagtaca tgccagaaga tcatatttct 360
 gctaagtatt attnttttta aaatcagatg tcgctgtatt attggctcatg cagcgagtag 420

aggaaatgta cagacagagt tttcttttagc catgaccttt ctctctgnag ntgntgcttt 480
aagcagatTT ctcttatata tgncttcttt ctctactctt agatacttgc tgt 533

<210> 20
<211> 627
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(627)
<223> n is a, c, g, or t

<400> 20
gagcccacct ggagctgcgc gcaggcttgt agcgcgaggc ccagcgcaga acctcgcccc 60
cgcagtcacct cgcgcgcccc gcgtctcggc gctgatttcc aggccccgga gccgcgccaa 120
gcgctgcgag cggacccggg aagagctccg gccccgcgcg ccaccgcttc accggcttgg 180
ctccctccgc ccccgggggg tcgcgcaccc acgatgctgc agggccccgg ctccctgctg 240
ctgatcgtcc tcgcctcgca ctgctgcttg ggctcggcgc gcgggctctt cttcgccagt 300
ccgacttccc ctacaaacgc agcaactgca agcccatccc ggccaacctg cagctgtgcc 360
acggcatana atatcaaaac atgcggctgc ccnacctgct gggncacgag tacatgaggn 420
aggtgctaga gcaggcgggc cctggatccg ctggtctgaa gcatgccacc ggacaccaga 480
agttctgtgc tgctcttcgg ccgtctggct cgacgactgg agaaacatca gccggcactg 540
ctctggtgca gtgagacctg gctcatcatg tcgccttgct tcgtggncga tgctgatgta 600
cgctcccaga acacacttgc tccctct 627

<210> 21
<211> 394
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(394)
<223> n is a, c, g, or t

<400> 21
gcacgaggaa gatggcctcg ggccccacga gcatccgcgt gcacttccaa gccggccgct 60
tccacctgga cggcagccgc gagagcttcg actgcctctt cgagctgctg gagcactacg 120
tggcgggcgcc gcgcgcgatg ctggggggccc cgctgcgcga gcgcgcgctg cggccgctgc 180
aggagctgtg ccgccagcgc atcgtggcca ccgtggggccg cgagaaacct gcgcgcaccc 240

ccctcaaccc cgtcctccgc gactacctga gtccttccc ctccanattt gaccagccgc 300
acaccgcaac attactgnag cgccctctac tattttctat attattatta ttttnnctga 360
catgtggntg ccttcccacg tgggtgtaggt acgg 394

<210> 22
<211> 537
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(537)
<223> n is a, c, g, or t

<400> 22
ctcgtatttg atggactcta actacatcga tccgaaattt cctccatgcg aagaatattc 60
gcaaaatagc tacatccctg aacacagtcc ggaatattac ggccggacca gggaatcggg 120
attccagcat caccaccagg agctgtaccc accaccgctt ccgcgccta tctaccctga 180
gcgccagtat agctgcacca gtctccaggg gccgggcaat tcgcgaggcc acgggcccgc 240
ccaggcgggc caccaccacc ccgagaaatc acagccgctc tgcgagccgg cgcctctctc 300
aagcgctctc gcctccccgt cccagcccc gccagcctgc agccagccag cccctgacca 360
tccctccagc gccgccagca agcatccata gtctaccatg ggatgaaaaa atccacgttg 420
cacggtgtac ccattttacg ttaggggaac cnacgctcga gacgcctaac cgcagcagtc 480
tgtattaaga agagattatt acatcgtagt gacgagagag aggagatggc catgtgg 537

<210> 23
<211> 575
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(575)
<223> n is a, c, g, or t

<400> 23
ctgcagttgg cccctactgg ccgggggtgg ctggggagtg gacagattga gattgtgttg 60
gcaagtgttt gtcttttctg aatgcaatgt ggcaaagcag gaaaagagcc taggtttgca 120
gaatatatgt gcgtgcatgc tgagttgctt cagttgtgtg accccacgga ctgcagccca 180
ccagccccct ctgtccatgg aattctacag gcaggaatac tggagtgggt tgccttgccc 240

tcctccaggg atttcctgac ccaggatcaa attcacgtct cttacatctc ctgcactggc 300
 aagacagttc tttaccactg tccccacctg gaagcnaata tacacangat gacaaagctc 360
 aaactcattc tgaccccaca cctctgtctg ttctagtccc acacgagctt gctctttcta 420
 ctgngngncc actaaacgac tgttctnctg tgcgcttact cacagtatgg nncatatana 480
 gtcactgttg ctttgatgct agtcacataa cctggacttc taccttttat gtttgttttt 540
 ttataaaaac taactgattt tttttttttn ttatc 575

<210> 24
 <211> 531
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(531)
 <223> n is a, c, g, or t

<400> 24
 ttttttaact tttttttttt ttttttactg gcatttttgt ctctgattct cttcagccct 60
 caccctggc cttcatctgt cttgattgac atctttgctt tcttctgtcc ccttcactcc 120
 agatccctaa gttcccttcc agcttgggga ctcaggggtg gatgtggtgt ggaggagaag 180
 ccccaggccc aaaattccat ctattcttcc tggatcccag aggggtgggt agagaagagg 240
 ggggncatcc ccagcccccc agcactgagg aagaatgggg ctcttaaggc cttagctctg 300
 atcccttccc ccttctccct gccccagna ctgngccact tctgagttgg gcagcgggtt 360
 ctagctcagc tcagctgaga atggttagaaa ctacaacata attctattaa ttagttttgt 420
 gtcttcaaaa aaaaaaaaaa aaaaaaaaaa aactgagggg gccccgtacc catcgctat 480
 ggatcgata cattccggcg ncgttacagc cggactgaaa actgncgtac c 531

<210> 25
 <211> 617
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(617)
 <223> n is a, c, g, or t

<400> 25
 ttctcctttg cctggccggg agggccttgg cagccctca acaggaagcc ttgcctgatg 60
 agacagaagt ggtggaagaa accgtggccg aggtggccga ggtaccctg ggagccaacc 120

ccgtccaggt ggaagtagga gaattogatg atggtgctga ggaaaccgaa gaggaggtgg 180
 tggccgagaa cccctgccag aaccaccact gcaaacacgg caaggtgtgc gaactggacg 240
 agaacaacac ccccatgtgt gtgtgccagg accccaccag ctgccctgcc cccatcggcg 300
 agtttgagaa ggtgtgcagc aacgacaaca agaccttoga ctctttctgc cacttctttg 360
 ccaccaagtg cacactggag ggcaccatga aggggcacat actcctactg gactacatcg 420
 ggccctttgca atacatcccn cctgcctgga ctcgantgat gtattccctt ggcattgcgga 480
 tggctagtac gtctgtcagc tgtacgaagg agaggacaca ctctgacgat acagagctgg 540
 agaaagatca cgaatgaacg ccgggcggga catctggatg cgnccgatng aaaataacag 600
 actttctgcc ggaacgg 617

<210> 26
 <211> 539
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(539)
 <223> n is a, c, g, or t

<400> 26
 ctggggggaa gaccatggac ttcgtcgacg tgaatgagag caacgcacgc tgggtgcagg 60
 acttcgcct caaagcttac gccagccccg ccaagctgga gtccattgac ggtgcccgt 120
 accacgcct gctgatcccc agctgtcccg gggccctggt ggacctggcc agcagcgggt 180
 ccctggctcg catcttgag cacttccact ctgagagcaa acccatctgc gctgtgggcc 240
 acggcgtggc cgccctctgc tgcgccacta gtgaggacag ggtctgggtg ttccaaggct 300
 acagcgtcac cgggccctca gtgtacgagc tcgtgcgggc gcccggtttc gccacctgc 360
 ccntgatgt ggagacttcg tgtaggacgc ggggnctgc ttcagcgcca gcgacctgac 420
 gcatgcatgt gtgctggatc gccacctggt cacggncaga cgccagctca cattctgncg 480
 tgcaaanctg tcttncttgt gcagcgnaag gagnagnccc nggcagcccc gacaatgca 539

<210> 27
 <211> 580
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(580)
 <223> n is a, c, g, or t

<400> 27
 gcacgagggg ggtcaccac atcccttcaa gatgaaagcc ggggtgctgac cttggctgtg 60
 ctcttctga cggggagcca ggctcgcat ttctggcagc aagatgaccc ccagtcaccc 120
 tgggatcggg tgaaggattt tgccaccgtg tatgtggaag caatcaagga tagtggcaga 180
 gactatgtgg cccaattcga agcctccgct ttgggaaaac agctcaacct gaaactcctg 240
 gacaactgng acaccctggc cagcacgttg tccaaagtgc gtgaacagct nggcccagtg 300
 accccagagn ntctggacaa cctgnaaaaa gagaccgct cgctgaagca ggagatgcac 360
 aaggacctga ggaggtgagc agaagtgcag ccctactgta cgagttcaaa agagggcaga 420
 ggagtggaga ctacgncaga gtggcgcgct gcggnagagt cggagggcgc gcaaagtgca 480
 gagtgagaca gtgaccgtgc cagactcgca cgcgccgcc gaaactggca gagtgcgcta 540
 cgacactgca ggtgcgccgc ggggctaagg gggggcggga 580

<210> 28
 <211> 530
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(530)
 <223> n is a, c, g, or t

<400> 28
 tttttttttt ccagttggat aaatcatgag atttatztat atttcacttt aaaagccaca 60
 acataacaaa cgtcactttc tggagagtca tcttattata aatacatcaa gtgcacttaa 120
 tacaatgaaa ctcgcttttt ggtaccactg tgagaccatc aggtgaggct ttgttaaatt 180
 tccctctaaa cttaggctga gatgatctca attcaggagg gtcatagcaa actttttcca 240
 aaactacagc gaagaagctg taacaacacc cgcgcctcc caatgacaac gcngtagaga 300
 aagttacttt gccccactna cccgggccct acccgctctg gcacgtgaga ttcagcagca 360
 ggagacgagc gccacagcgt gtgcaggcca gaccgggtca ctgtactcag nccagaccac 420

aaatataccta tcaacgaagt ctaaggtaaa gaactaacag gggctctgtc tacaagcttg 480
ctctcaatga aacccgnctt tataactggg acaaggactc acttggtgtt 530

<210> 29
<211> 593
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(593)
<223> n is a, c, g, or t

<400> 29
gcacgagggg aggttggacg ctgtgcaccc tcctcccctc ctctcgccgg caacgtctga 60
atccggacac catggactcg gttcgccccc tctggctgat gcttctgtcg ctgctcctcg 120
tgggaactgc gctgggtgat gcctcgcagg cgccgccagg aaataacgag gagatctgcc 180
tcctgcccc ggacgacggg cctgcccggg cgcggatccc cagttactac tacgacaggt 240
acacgcagag ctgccgcgag ttcattgtacg gaggtgtcga gggcaatgcc aacaattttg 300
aaactttgga gggcctgcac gaagcgnctt ggaagattga gaaagttccc aaaattgccg 360
gntaaaagng aatagtagca gtgtggggag ctgagagaca gtattcttca tctagttctt 420
gacatgtaat agttatattg cgggtgtcaca catgagaccg gtccggtgag ctactgtatg 480
actctggcac caagagactc atatttgcta caccgaagag aggctgtgtt gctagtcctc 540
gtatatttta ccanaacaag ctgaggctca ctacgtgnga ggagnataat tgc 593

<210> 30
<211> 545
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(545)
<223> n is a, c, g, or t

<400> 30
gcacgaggca atacactagg taatactgtt ttaggtttcc ctttttcctt ctttatctga 60
aagtatcctt ggtgtacggc gtcgtgtcag cttcagaata ctgggtgtc gtcacctgta 120
cacacgcaca acctgtggtt tctcagggtc ttcagcggga tagcttgggg caccgtgttc 180
actggcggtt tctcgctgcc tacgggtggg tcttggtgat tagagaatct aatagtttat 240
gtatgtgaat cccaaccttt tcaggtaccc gccactgta ttgtactata cttcctttcg 300

ttttctttct ccctcactga gcctgtttct ctttgaagtt cacatttcac actattttaga 360
 tcacacatgt tacgaatata acgtaatat gtctgtctgt atctgtatta gatggttcgt 420
 gggatcctct ggggccattc actagctgca tgtacatttt tcttggttnca tgntgagtat 480
 gtattcatat attgttcacg attttacagt tattgtcttg tttttttatt ttctgttata 540
 tgatg 545

<210> 31
 <211> 531
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(531)
 <223> n is a, c, g, or t

<400> 31
 gcacgaggat gggagtagac atccgccaca acaaggaccg aaagggtcga cgacaggagc 60
 ccaagagcca ggacatttac ctgaggctgt tgggcaagct gtatagggc ctggccagac 120
 gaaccaactc caccttcaat cagggtgccc tcaagagatt gttcatgagc cggaccaaca 180
 ggccaccgct ctctctttcc cggatgatcc ggaagatgaa gatgcctggc cgggagggca 240
 aaacagctgt gggcgggggg actataaccg aagatgttcg tgtgcaggag gtgccgcaac 300
 tgaaggtgtn gtgcttgca gagagcagac gcgcccgcag ccggatactc aagccggggg 360
 caagagctca cctcgatcag cgggcctgga ctccgccagg gctgtgcact gcctccttct 420
 gtctcgttag gtcggagagg tcaggcttcc ncagggccca ctacccgata gccacacaac 480
 ctactcgctc aaggcggnag tgagcggaac gcgcgagcct cggctcatac t 531

<210> 32
 <211> 347
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(347)
 <223> n is a, c, g, or t

<400> 32
 cttcgttttc tgaatgttga gctttaagcc aactttttcc ctctcctctt tcactttcat 60
 caagaggctt tttagttcct cttcactttc tgccataagg gagngatca tctgcatata 120

tgagggttatt gatatttctc ctggcaatct tgattccagc ttgtgcttct tccagcccag	180
cggttctcat gatgtactct gcatataaga taaataaaca gggngacaat atacagcctt	240
gacgtactcc ttttcctatt tggaaccacg ctgttgcttc atgtccaggt cttactgttg	300
cgtcctgacc tgcatacacg attctcaaga gcaatcaagg gngccgg	347

<210> 33
 <211> 583
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(583)
 <223> n is a, c, g, or t

<400> 33	
gcacgaggct tttctccaat cataaaccac gtggccaggg ttgccgctgc agccacacag	60
caacggacag cctctcaata ctttgtgctc ttgatcatta ctgatggcgt gatcacagac	120
ctcgatgaga ccagacaggc gattgttaat gctgccaagc tgcctatgtc catcatcatc	180
gtcggcgcttg gaggcgcgga cttcggcgcc atggagttcc tagatggcga cggcggaagc	240
ctccgctccc cgaccggcga agaagccgcc agggatattg tncagattgt gcctttcagg	300
cagctccaga acgctccaaa agaaagcact gctcaaagcg nccctggcggg agggccccag	360
caagggangg ggctacttca tcacatacaa actcctttct cccagaacc cggcttcgaa	420
atgagagcgc cctggtcgtc gagcagattt gtgtgctggt ggagcacaga ttctcacatc	480
tcaatgcgat tgtcatttca cctctcaaan cctacattac atgcacctac ttcttggtt	540
gtcattaagc ttcttttact gtttgagaag gctacttagt tgc	583

<210> 34
 <211> 558
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(558)
 <223> n is a, c, g, or t

<400> 34	
ctagtgggta ttaagacttt cggggctgat tttaacccta actctccctt cagttggcag	60
cccaagtgct agaagacaag ggtgttggtc tcgggatggt ggactctgag aaggacgcgg	120
ctgtagccaa gaagctagga ctgactgaag aggacagcgt ttatgttttc aagggggatg	180

aagtcattga gtacgatggc gagttttctg ctgacaccct ggtggagttt ctgcttgatg	240
tcctagagga ccctgtggaa ttgattggag gtgaacgaga gctgcaggca tttgagaata	300
ttgaagatga taacaanact attggctact tcaagaacaa gactcanaac attacaaagc	360
ctnatgagac gccgcggnag atgttcaccc ctacatncct tnnctcnncc ctncgacgca	420
agtggcaaag tagctgaccc taagctgatg aattgattct acgagcctca tggnaganct	480
gtgacatccc aacagcccac agcgaagaaa cgcagctcgt nagcaccaga aacaactgag	540
agtgagctga attgatgt	558

<210> 35
 <211> 507
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(507)
 <223> n is a, c, g, or t

<400> 35	
ctgcttggca gtttgatttt taaattgtgt tagaacataa gctgtttcag aaaaatatga	60
aaaatgtatg gctgcctttt gaaatatttg atgccttgtc ctacaggata ctgcaaagaa	120
catggctgtc ctaaaattgt aaaaattgta taaacaagtc acaaatgcca gttttctaaa	180
aacttttcag atttttccct tgatatgaag gtaaggaaca tatacaggta tggagtattt	240
gactgaaaac agtgtagggt atgggtggaga cacagacaca gaattttcag agatttgcta	300
gtggtaggta ctgaantgaa taccennagt agctgtaatg tcccctgaga caggtagtct	360
ttcatactaa cacagagact ttgttgntc attataacac atgcgatgtn gtaaatgtgn	420
tcagggagaa gntaggaact tgnatgattt ggacaagagt tgaaaggata tcatagntag	480
aggaggntga aantactgna agttgnt	507

<210> 36
 <211> 556
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(556)
 <223> n is a, c, g, or t

<400> 36
 cagggtggcac agccccgcat caccgacaac aaggatggca ctgtgactgt gcgctacgcc 60
 cccagtgaag ccggcctgca cgagatggat atccgctatg acaacatgca catcccaggc 120
 agccccctac agttctacgt ggattatgtc aactgtggcc atgtcacagc ctatggggcca 180
 ggccctacccc atgggggtggt gaataagccc gctatcttca ccgtcaacac caaggatgog 240
 ggcgaggggg gcttgtccct ggccattgna ggcccctnca agcagagatc agctgcaccg 300
 acaaccanga tngnacngc agnngtctcc tactngccgt gttacctggn gactacacat 360
 cctggnaag tacaacgaca gcatanccgg gcagcccttc actgncagggt cacagntgac 420
 gactcctgcg catgtccact gaagtgggct tngcngcgcac tcccatcaca tccgnagacg 480
 actcacctct gacgcaaagg ngccccctcg gcggnaaanc tgctgtgnan cgggtggcagn 540
 cacagggatc tatctc 556

<210> 37
 <211> 558
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(558)
 <223> n is a, c, g, or t

<400> 37
 caaaatcctc accctgcaaa tgagaatgct ggggtgggcac agaagcacgt gagagaaggc 60
 agngtgcgg aagcccacct gggggctggg ctccccagtc tgcgcacctt caggctgctt 120
 aactcaagct tgagtttgtg gacctgctca gtctgctcga ccacaacctt tcataggtga 180
 ttgctaagag ggttttttct taaaaagaaa aaaaaaaaaa gaatattgtc aaaaatggtt 240
 gtttgcacac cctgtgaatt tttcttcctt ccaaatggag actcatgttt atgactacta 300
 tttaaaaaga ctccatttaa agcacanttt atgaaaacaa ataantccat gtttaatgtc 360
 atgtatactt aatatcttct ctacagtagc tcagttatag agtggttttt attacaatta 420

tgttttgtcg gaggaaccg cccagagagn gatcgggaca ggagagntat gtttgttcta	480
attattgagt gggcttatac ttcgctgggt tcatgttctt ggtgactaca ataattcttc	540
aactaaaaaa tcattaag	558

<210> 38
 <211> 468
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(468)
 <223> n is a, c, g, or t

<400> 38	
ctgacgctga gcagcgtggt gagatggctg ttaaggatgc tcatgccaag ctggccgagc	60
tggaggccgc tctgaggaac gccaagcagg acatggcgcg gcagctgcgc gagtaccagg	120
agctcatgaa tgtgaagctg gccctgggac gtggagattg ccacctacag gaagctgctg	180
gagggcgagg agagccggct ggagtctggg atgcagaaca tgagtatcca caccaagacc	240
accagaggct acgcaggtgg actgacttcg tcctacggga cccctggctt caactacagc	300
ctgagccccg gctccttcag cccaccagat ccaagcctgt ggggtgtgaag aagaatgaga	360
cccgcgatag gaagactggg gtcgtgttct ctgatgtgct gtgctagtgt atgggctctg	420
cggngccttc catcctcttc gcttcatgct tcttgcgagn agctggcg	468

<210> 39
 <211> 498
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(498)
 <223> n is a, c, g, or t

<400> 39	
agggcggttaa tagtccgcag attgcagtca aacacccgct caccgaccgac cctgtctccg	60
ctcgcgcca tctacacaag gccccgtgga acaaggttcg caggctgggg gtccccctc	120
ctgaaggaca acgtctccta cacgggcagg cctttggtgc tgtatcactg actgagagca	180
gagcctcctg agagcctgag ctcgtcctgc actcccaccc catcccnacc aggcggccccg	240
gctcctccag tgcagatggc acaggggggtg gacagctctc ctccagtgcc cgggacctgc	300
accaccacg nngctggagc tggggcagat ggngacagcg accctgcgca ctgcagggat	360

ctacgactgt nctgggctca ggctgggcac tggcctttgt ncaagnatat tataatcagc 420
 tgtgctccca aaaaaaaaaa aaaataaaaa aanaaaaaaa aaaaaaaatg agggggccgt 480
 acccatccct aaggtgta 498

<210> 40
 <211> 461
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(461)
 <223> n is a, c, g, or t

<400> 40
 gcacgaggga aacagtgaaa atagctctgc tgtgtgctgg agctcaggag ttttgccaaa 60
 acaatctggg cctacataag atttgaaaat tatctgtcta tggtagagacc tgaaaggagt 120
 gatttagaca agaaacaatg ttccattcag caatattccc aaaaggaaac ttcacccctt 180
 caaatggtat atggaaactg ttgctatfff cctaaaatff ttaaaatfff ttctaaatga 240
 ctgagtgccta aatactgtta ctcaagttta aatgccacca ctcaaggaaa gagaaactat 300
 ngaagaaata attatttaat atanttgagc ttgggggaga agaaataata catttagngt 360
 attaattcat atgctaggaa gtgcatctag aatttatggg atgttgatgg nagagttgtg 420
 ctggtactga agatacaact ttntttgttt tatttgngt a 461

<210> 41
 <211> 565
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(565)
 <223> n is a, c, g, or t

<400> 41
 gcacgaggac ggcagtcgct agccctcac cacctccatc ctgactcctg acctgtaggt 60
 tgggcaccac catcagagcc acctcccagt gctgacctc cccctcagca gccctgtaac 120
 aagtgccttg taagaaaagc gggggaagtg ggagcagcca cgttagtctc tggaggtagg 180
 ttatccctgg gagacttgaa ggctggggtt gattaagaaa actcttcac cccccacaac 240
 tacttccgga ctaaggaatt aggggagcat ccgttcagaa gcctgagaag ttatcctatg 300

ctgatggagg agccatgctg cttcatcctg cgtgaatgca gntggctctc cttgctgctg 360
ngatcacccc agcagaccca tagcccccca gcttggtgct ggctgctcca gccaccatg 420
gtacatggct ccccatacat agctcattcc cancatgna gaagccnagt gcgnagntct 480
gngtatgtna tcaccagcct tgntgcttc gggctcacag cacggaggaa caccgcttc 540
tccacctact tgttgatcta aaaga 565

<210> 42
<211> 533
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(533)
<223> n is a, c, g, or t

<400> 42
gcacgagggc agcagctggg ggccggcagt tgcttgggg accgcgggcc cctccctcct 60
cctctccctt gccctcgcg taccaccacg aggcgcggcc gactccccgg cctccctgcc 120
gccggctcgg cggagccgca gcggcgcccc gcgagaggcg gagccgctcc caagatgtcg 180
cagacggcca tgtccgagac ctacgatttt ttgtttaaat tcttggttat tggaaatgca 240
ggaactggca agtcttgctt gcttcacag tttattgaaa aaaaaatcan agatgactca 300
natcatacaa taggagtgga atntggttca aagatataaa tgntggnggt naatatgtaa 360
agntacagat atgggacaca gcaggccaga acgattcagg tctgtgacaa gagctactac 420
gagtgcagcg gggcctgctg tctacacatt accagcgaaa actacatgcg ctactaatgn 480
ttacagatgc cgatgctgcg agccaaacac gnetcatccc tgcggaacac aag 533

<210> 43
<211> 469
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(469)
<223> n is a, c, g, or t

<400> 43
tttgagaaac ctctgcgcca tgagagcgaa gtggaggaag aagcgaatgc gcaggctgaa 60
gcgcaaaaga agaaagatga ggcagaggtc caagtaaact tgtacacca tggaagccac 120
agaagcagaa acaagggaag ccagaggcca gggacgctgg taciaagtgt ggactgcatg 180

cctactatct agaacttata aatggatctg gaacatctat ggccattctg atcaccttga 240
ccacctttgc gagacctacc ttgctcatat caaagccgct ccttttggtc cattgccctg 300
gacctgtgat aactatggac tagttctctc tcagttgtgg ctgaatgtaa cgngtacaat 360
aatcatctn ctttgctgtc ttatcggaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa ctgagggggc cggnaccnat cgnccatg 469

<210> 44
<211> 440
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(440)
<223> n is a, c, g, or t

<400> 44
gcacgaggcc ccaactctccc ccgccccgct cttttttaaa catgtgattt gtgtattggc 60
ctgagctgag ccttcacgc agtgtgtggg cttgctctaa ttgcagctct cagtcttctc 120
ttgtggagca cgggctccg agcgcatgga ctcagtagtt gcagctcgaa actcttggtg 180
tcacaagctg gcttaattac catgtgccat gtggaatgtt agctccccac cacgggtcta 240
acccgcgcct gcgttggaag gcagattctt aaccatttgg ccaccatcgc aatatcangg 300
cctgcctctg ctaaccacac tccatacatc cttcttntc ccgctccnnc ctgcacgtat 360
ctgtctcttg tctggatgct gtttctagta gttcgtttgg cctgtgtttt tccatctctt 420
atgttggtgt ttgctcnntc 440

<210> 45
<211> 442
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(442)
<223> n is a, c, g, or t

<400> 45
gcacgaggag gcctcgtctt ttccctcgca acaagcatca tgagcttcaa cacccaatcc 60
accttctcca actaccggtc cctgggctcc gtgcagtcgt cgggccaccg ggtccgaccg 120
gtcagcagcg cggccagcgt ctatgcaggc gccgggggct cgggctcccg gatctccgtg 180

tccccgacca ccagcggtccg gagegggtgt ggggtacggg aacctgcgcg ccgagatggc	240
cgaaggtctg gtgggtgtag agggcatcca tgacgaaaag gagaaccatg caaactgaaa	300
tgaccgctgt cctctactag agaagannga gagctgcatg cgatatcgca actgcagaca	360
aatccggtac actgtagaga tgtactcagt cattaatggc gcatactgta tatatttagt	420
ctgggctaatt ttgatttttt gt	442

<210> 46
 <211> 569
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(569)
 <223> n is a, c, g, or t

<400> 46	
tgcggaacaa gcatcatgag cttcagcacc caatccacct tctccaacta ccggtccctg	60
ggctccgtgc agtcgtcggg ccaccgggtc cgaccgggtca gcagcgcggc cagcgtctat	120
gcaggcgccg ggggctcggg ctcccggatc tccgtgtccc gcaccaccag cgtccggggc	180
ggctgggggt ccgggaacct gggcgccggg atggccgggg gtctgggtggg tgtagggggc	240
atccagggcg agaaggagac catgcaagac ctgaatgacc gcctggcctc ctacctggag	300
aangtngaga gcctggaggc ggataaccgn agactggaga gcaaaatccg ggaacacctg	360
gagaagaaga accccagtca gagactgggc gcattactgt agatcatcga ggactgaggc	420
tcatattttg caattctggg acacgccgca tcgtctgcag atgatatgnc cgtctgctgc	480
tntgactcag agtcagtatg aaagactgcc tgcgcagctg ggagaggact accggctcgc	540
agtcatgtga cacatgtcac gctgcgtga	569

<210> 47
 <211> 308
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(308)
 <223> n is a, c, g, or t

<400> 47	
gcacgaggca atctttcgcc atcctagccg agagggtatc aagtcgacat ctgcaggagt	60
cagacacgct cggggcctac tgagaagcct ccagacgct tcattttctct ctcttgggtt	120

tacggtaggg cacgaagagg gtgagctgaa aggttgtaga agctccagtt gctcgccacc	180
ctcctggact gnagaaacag gnccttcca gggattcgta gcggactagt ggagccgcag	240
gnactaaagc ggcggcgcgc gctccgnaat ccnnatctg ggtccanaat acacanctan	300
atnngctt	308

<210> 48
 <211> 515
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(515)
 <223> n is a, c, g, or t

<400> 48	
cgggcgcat tgtggtgact gagcggagcc cagcgacagg atggctgggc acagattggt	60
gttggtatta ggagacctgc acatcccaca tcggcgcaac agtttgccag ctaagttcaa	120
aaagctgctg gtgccaggga agattcagca cattctctgc actggaaacc tttgcaccaa	180
agagagttat gactatctca agactctggc tggcgatgtc catattgtga gaggagactt	240
cgatgagaat ctgaattatc cagagcagaa agntgtgact gttgggccag tcanaatgct	300
ctgatccatg gacatcagtt attcatggng agatatgccc agctagccct attgcaagca	360
gtngatggga cattcttatt cagacatacc ataatttgta gcattggctg naattattct	420
cttattccgt tctgccctga gctatatgtc ttggnnacac atattctctt tggtgagtat	480
tcagcttacg tgtctttgtg ttatatggag agaaa	515

<210> 49
 <211> 531
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(531)
 <223> n is a, c, g, or t

<400> 49	
gcacgagggg tgataaggca tctacgtttt agaagctctg gccactagtc gttaagatga	60
tggctctgat ggcatttcta tggattataa cgagtcactt gtgagagaga gtcactctgg	120
acaggcttgt taccctgact gaccagagg tcctgggggg aatggcacct tgtctctgct	180

ctttaagagaa cctgtggaag gaaacacaga gtaaactgtg ctgccgtttc acaactgtgg 240
 aaggaaatgt gtgagcgaat gaaggatctt agaattcaaa gtagagggaa gcccaccttg 300
 tctactgatt ttgatgtata ttcacagcgt ccttttaaga tctgngaagt agactcttct 360
 aanctctata ctcttgcaact ctaacgcaga tcacagtctt atataactat ttatcnannn 420
 aagtatcatt ctaagatggt ntttnggaaa actgtagaat gtaatgtact atgaactgat 480
 atctgtcaag tatttatata atactgttta ntttactggt ttggtgatct a 531

<210> 50
 <211> 547
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(547)
 <223> n is a, c, g, or t

<400> 50
 gcacgagggc acaacactga gaaaactagg gaagactcag gctcagagca tgggttcctgt 60
 gtccaggata gtcacagtat tgttcaaata aagaagcttc ctggcaagtc agtcttttag 120
 aactagtatc ctatgtatcc ttcgttgatt ttcaacactt ctgaagtctc cctctattag 180
 tcttctcccc aaggacatt tatgagaaga ctctggaga aaaatctggt taaaatatgt 240
 gctctgtttg ctgtgaattc cagctgctgt gacttgatca cttacacagg atgtcagttc 300
 tcccttcttc tgtagcaatc tanagggttg gnacagnaaa tggaataagg gcagatgaaa 360
 ggcacttcag agatggagca tctttaaggt atttacatac cattattggg acactatcag 420
 cagggtggggc tgacagaatt ttacctnca tgggtctnca tcacaccccn ctatcccatc 480
 ctctncatgg aantacatat aactaaatca aagagagctt aaatctcaaa gagctatact 540
 ttattat 547

<210> 51
 <211> 379
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(379)
 <223> n is a, c, g, or t

<400> 51
 gcacgaggcc caccceaac ctgcgggcac actttgagga ggaggcgagg gtggccgggc 60

tgggctggaa ggtgaggctg gactcctggg aagtgtcagg ctccctggca cagggcttcc	120
ctgtgttgta taatcagctg tcaacttcagc atttcctgc accgtgcttc acaagtacag	180
atcgaacatt aaacaaacag tgactgcttt ataaatattt aactcccact gtttaggaat	240
tgctttgagg cagagacaaa ataagagttc ctggcgggct gctgcatggc ccctctttag	300
tggttttгна ttgtgaagac aggntgttnn gnagtttgaa gggcagctgt attctgaaag	360
ccctttgtcc ataggcttt	379

<210> 52
 <211> 313
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(313)
 <223> n is a, c, g, or t

<400> 52	
ttaaagttga taaagaaaag tggttgtatc gaactcctct acagatgtga aggaatcaag	60
tactagtcaa gcaaattttc tgcagattat cacaaatcca tgagctgagt gactgtggct	120
tgcaaaatca ttgtctctgg gtctgatgta gttcctttcc tccccaattt cgaactagtg	180
aagagaaatt agtcatcaaa ctatgaantt actgtgtaaa agaaaaagtg attnngtgat	240
gctgaggtga ttcaaggtct tgctacagaa gtattaatca cccctgtgct agaatgctct	300
tatgnngtag ntc	313

<210> 53
 <211> 348
 <212> DNA
 <213> Bovine

<400> 53	
cttagtggat ctttcttgtg gcgtgcctct ttctgctcta tgcgtgctga aggccgtcat	60
tcacctatgc cgagctaaat tttctgccaa ttatcacaaa gccatgaact gtgtgactgc	120
gcggtggcaa aagcgttgct ctctgggtgc tgetgtccct tcactttccg tcccctctgt	180
gcgtactatc gaaagagaaa tgaggctgaa atctatgaag tactgggtga aagaaaaagg	240
tgagaggttg aagctgaagt gaccatgac tcgcttacag aagaattaag gcacccccgt	300
gctagataag catgataatg agaagccctt tgcataacca agaagact	348

<210> 54
 <211> 479
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(479)
 <223> n is a, c, g, or t

<400> 54
 cagaggtgca actttcttcg gtcgtcccga atccgggttc atccgacacc agccgcctcc 60
 accatgccgc ctaagttcga ccccaacgag ataaaagtcg tgtacctgag gtgcaccggt 120
 ggggaagtcg gtgccacgtc tgccctggcc cccaagatcg gccctctggg tctgtctcca 180
 aaaaaggtcg gtgatgacat cgccaaggca actggtgatt ggaaggggtct gaggattaca 240
 gtgaaactga ccattcagaa cagacaagcc caattgaggn ggtaccttct gcttctgccc 300
 tgatcatcan agccctcaag gaaccaccca ggnacagana gaagcagaan aacattaagc 360
 acaggaana cattactttt gatnngagat cgtcacatth gccggncaga tgcgcattcg 420
 gtctctagct agagatctth ctggancatt tagagatnct gnngacgncc acctgtggn 479

<210> 55
 <211> 563
 <212> DNA
 <213> Bovine

<400> 55
 ttcccaggtg ctgctggccg agtcgggtccc cccggcccct ctggaaatgc tggaccccct 60
 ggccctcctg gccctgctgg caaagaaagc agcaaaggcc cccgcggtga gactggcccc 120
 gctgagcgtc ccggtgaagt cgggtcccct ggtcccctg accccgctgg tgagaaagga 180
 gcctctggtg ctgacggacc tgctggagct tctggcactc ctggacctca agtattgctg 240
 gacacgtgat gtgttcgtcc tgctgggtcag aaagagaaag agcatccctg tcttctgcac 300
 ctctgtgaac cagcaaaca gtcattctgag caatagagaa ctgccccctg tcccatggcc 360
 cctgattgtt gtaccctgtg agttgtacgg gaggagtctg ggtgagtacc ttgacaaatg 420
 tttcgtgcca ggggaggggg gaacgcctth gaccttgggt tcggctccgc ggcccgcctg 480
 cgactgcgca gaggatgggg gacggctggg cctggtcttg ccggggcggg ccgggcccag 540
 ccccgaggag ggaagaaaag gaa 563

<210> 56
 <211> 547
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(547)
 <223> n is a, c, g, or t

 <400> 56
 ctcgagtttt tttttttttt ttttattttt cttttaattt ttctgaagga tatacaccac 60
 atatcccatg ggcaataaag cgcattcaat gtgtttataa gccaaacagt cactttgttt 120
 aagcaaacac atgtacaaag taaaataaaa ccacaaaata atgaactgca tgttcataac 180
 atacaaaaat tgctgcctac tcagtaggta actacaacat tccaactcct gaattatatt 240
 tataaattta cattntcagt ttaaaaaaat agacttttga gagttcggat ttttagattt 300
 tgttttttta cattctggag aactggagct caagctcagc ccccttcctt gttttgctcc 360
 caaagcctcc ccccgatcac cactcccttg ccccttnag cttagaggtga gcacatccct 420
 cacaattgca ctgtcagncc gngtcagcag gncgcatac acaaaggcac ccagagtgna 480
 ancttnttaa ncaaaagnna caaaaaacta cttcaaaaaa gagaaaaaca acggnattgc 540
 nctggga 547

<210> 57
 <211> 571
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(571)
 <223> n is a, c, g, or t

 <400> 57
 gtgatattca aacgaatagt ccgtcaaccc cagacactgg tttgaagaaa ttgagacttg 60
 atcataggac tgtattagtg cacagcgcca gcatgtatgc taggagcagt gggaggaggc 120
 cagtagaaaag ctttgtcatc tttaggggta gtgatgtgac tgctatttgg agtgtcactg 180
 aaaaggaaaa ctttagcatg ctactgatc tgcctatagc tccagcaaca gctcggatgt 240
 gcgtttctca gccatcatga ggctgagtca agttcgtctc taagtcagaa cagcagattc 300
 agctatgaca ttctgattca agacattgtt caggaatcag aattctgtct attagactgg 360
 gacagctgng gcaagctaaa ttgctgtgna caagccagat ttttttttat tgatactgta 420

atattgtgtg tattatatat attgtacgnt atctaagtta ttaaaagtgt tgtgcttttt 480
gntttgtttt tatgcttgat attcagagtt agctcatttg acacatagta gacgaagctg 540
ttgatatcaa gcagatgaat caataatttg g 571

<210> 58
<211> 546
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(546)
<223> n is a, c, g, or t

<400> 58
gcacgaggcc ggtgtcccg cgccagagac gcagcagcgc tccctctgcc cacaccacc 60
gcgcctcgc gctgcctct ccttcggag ccagtcctg ctaccgcagt cgcccagtc 120
accaccacc tctgcagcca tgtccaccag gtccgtgtcc tcgtcctcct accgcaggat 180
gttcggcggc cccggcacc caagtcggcc gagtccacc cggagctacg tgaccacatc 240
caccgcacc tacagcctgg gcagcgcgct gcgcccacc accagccgca ccctctacac 300
ctcgtcccg gtgngcgtgt acgccacgc cntctcgnc gtgcgcctgc gagcgngcgt 360
gcccggcgtg cggntgctgc agactcggtg gacttctcgt tggccgacgc catcacacc 420
gagtcaagac accgcacaag agaagtggag cgcaggactc atgacgctcg nactactga 480
cagtgcgctt cggacacaaa cagtctgtgc tgagtggcac tcaggcaagc aggcgcgggg 540
acttaa 546

<210> 59
<211> 277
<212> DNA
<213> Bovine

<400> 59
agggcggtta atagtccgc agaccgtccc ttctcaacc agttttgaag agctcttacc 60
ttcaaaaaga actcttactc aagtttaaac atcacagggc tgactacact agggggtttt 120
attgcctctg tgcttgttct taaatctgtt ttggacgac gctacgaatc actatgtcaa 180
tcagcaaggt gaagaactaa gacatgaagg agaaccggat gtccttggtg ttggcctctc 240
atTTTTTTga cttggggaag acgaggtttg gctgggt 277

<210> 60
 <211> 624
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(624)
 <223> n is a, c, g, or t

 <400> 60
 gcacgaggct gtcactttgt aaagctttca atcaaaacca ccttgaaagc acaacagcag 60
 aattcaatga ttctgactct ggcatttcac tgaacacaac aagctccaag catggcatca 120
 ccagaccact cagtgggaatc ttccatctat ggagacacat tgcttggctt cagtgattct 180
 gaaatggaag agatagatag tacccttgga aatgtcaaac agaagggggc caaaacaccg 240
 ccagtgtggc ctctgggga cccagtccaa cctttgtcgt catcacaggg gaacagcgct 300
 gcagcacgcy attcccagag tgaaaacgca ccaaagaaag agtacctgta agtccgggctc 360
 atcgaaaaac gccattcaca taagacaaac attcagccgc ttggaggctc acctcacaag 420
 aagagagcta cggnncaaag ctctcatatc cattcctgta gaaagacatt acctccagtt 480
 gagacttcat gaatgagtgc aggagcattc acgagctcac tgcataattt aaactactag 540
 aggnagata agggctgtca aaatgcaaaa gaaacggaat ataggnacgg gcagattaat 600
 attaaaaaaaa aagaaaaagt caag 624

<210> 61
 <211> 582
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(582)
 <223> n is a, c, g, or t

 <400> 61
 ctgacagtga gcccgagtcc gaggtatttg aaatcacgga cttcaccact gcctcggaat 60
 gggaaagggt tatttccaaa gttgaagaag ttttgaatga ttggaaattg attggaaact 120
 ctgtgggaaa gccacttgaa aagggtatat ttacttctgg gacatgggaa gagaaatcag 180
 atgagatctc ctttgcagac ttcaagttct cagtcaactca tcattatctt gtacaagaat 240
 cactgataa agaagcaaag gatgaagtac tagaagatgt tattccacaa cctatgcaag 300
 aattgctgtg tatgaataat gactttcctc ccagagcaca ttgcctggna agatggnatg 360

gnactcgaga gntnggggng atagcaccct gctgcaacat gatgctgtcc tcatgaatct 420
aagtgcattct tctctgactc tgtgtctatg gcttggaac actgctgnca gngccactct 480
tgtgcagatc tcacaatggc gagatgatgg gnngaagtca ggnnctgggn ncgactgatt 540
gaatggtctc tcgaaaggcc aatagatact atttcagnct gt 582

<210> 62
<211> 592
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(592)
<223> n is a, c, g, or t

<400> 62
gaaggatttt ccagttagtt tctccatggt tgcccgaagc ccaaaaagtc tctgtccagt 60
tctttgttag gacagtaaga ccagtggaag cccaagttaa gtggaaggcc ctgaataatt 120
ccagaagacc cattcttacc cttaaaatcc tagagtgggc aaggacaga gtgatttgtt 180
tccgaaagag tccgaggtat atgtgttaaa ttagaagaca ttattttgtg ctgcgaactc 240
tcatgatggt gaccagaaag aaatcacttg cattttatac agtgtcagtt tggaaagctg 300
atgaagtttc gcattctttt taggaggtca agaaaggcac annaatgctg ctgcagaagg 360
nggnnggng tcatntttgc cagttgtcta gcttgattgc agacggttct gtttagtggt 420
atggnctgt atgtatcact cattcatggt tgatgagtaa atatgatgaa atgntgana 480
ctgaggctgg natatacaaa tgcagctgac ctatctcaag actacgtcag caggtagcaa 540
ctaacatata tagagtatat ttgtaattga tatgaacaga attacgagtg gg 592

<210> 63
<211> 600
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(600)
<223> n is a, c, g, or t

<400> 63
ttccagtcct gtttcacact acagagtccc aacgtgggta ttgcaggcaa cgttccctct 60
ctccgtgggc tagaagcccc tcccccaagg tagaagaag ggaagaagct aactccagt 120
tttccgttgc actgatcccc aattcagtc aggagggggc ttggttaacc ctctccctca 180

atatacctggc accttgggct tgtgaacgcc tcctagccaa atcactagag tacagtgacc	240
ccagcctcct gcctgtcccg agtgagccct cccaccctg accgtgctaa ctgtgtgtac	300
atatatatc tacatatatg tatattaaac ccgcactgcc atgtgtaccc ttttctgtgg	360
tgtctagcat taacttattg tctaggccgg gcgggggtggn aggnaaatgc cacagtgagg	420
gngtggcaga gtcaattgct atatatcgaa aagaaaactt tttaactttn attcacatgc	480
atctcagaga tattanaagt taggaggggg agtttgaggt gggaaaaact tagggaggag	540
ctgctgtgna gaagaacaat gctggagacc ttcaccagca ccagcgcctt gcctgtggca	600

<210> 64
 <211> 240
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(240)
 <223> n is a, c, g, or t

<400> 64	
gcacgaggcc ggtctccgcg cgggtctggg tcgcggaacc cgggtggtgc tgtgcgggcg	60
tcatgtcaga caacgaggac aattttgatg gagacgactt tgatgacggg aggaggatga	120
agggctcgat gacttggaaa tgccgaggag gagggccagg ataacgttga gattctcccc	180
tttgagagc gaccgcgagc caaccanaaa ccaatcacac accatatatg accactatga	240

<210> 65
 <211> 552
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(552)
 <223> n is a, c, g, or t

<400> 65	
gctcttcttt gtttcccagc tacaacttgc agagccatca catcccagga acatttaggc	60
aaaatataaa ggtgtgtgtc taaaatatgt ctttgaagaa gcacttcctc cttcctcagt	120
gcttctgtcc cacttggtt ctgcttggcc acctggggct gccgcaaagc aggttagtcc	180
tttctggccc tggctgttga gtgttttgtg tccaaaaagt gtttaaggcg cagtgggaagt	240
taaagaagtc taagacacag tccttgttct taaaaagatc accggcaggc taaaantaca	300

gtgctaaaaat ataagcgtat acctgagaaa tcattcatgt tcagctgtta ttggagtgtc 360
 tgctaggtgc agactgtagg gtgaattata ataataagaa tagactgntg ctctcagca 420
 gttctgtctc tcagaggtat cgagtatata tcagatagga atattggagc cctgcatgcc 480
 ttgccatnaa gctcaggagg cagatcacga tgaaggacgg cgagtagcga ggatgcaact 540
 tttgnataac gn 552

<210> 66
 <211> 572
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(572)
 <223> n is a, c, g, or t

<400> 66
 cggctgtgtc ttctctgtct tcccagccgc cgctgccgac cccgccgccc gccgccgccc 60
 ggactcggac gcgtggccgg ctgagcctga cctgtggcct gtccttgccc ctctagtgga 120
 gcctcttcag gcgggaactt ctgtctacct gccctacaga ggagccatcc caccagccag 180
 acgctcccag aatcgtcacc caggcaggcg gttggcttgg ccccaacctg ggctggacac 240
 gtgtcccccg ctctctctcc cgctggcggt ttggtgtcct cctgggcagc ccgtccccc 300
 cccactggnc ccagatggg cgagtttga gagaagtga caacatgtgg caccgtctgc 360
 ctcaagtacc tgctcttcac cttctactgc tgttttctgg ctggctgttc tggccgtcat 420
 ggccgtgggc atctggacgc tggccctcag agcgactaca tcacctgtg gcctcggcac 480
 ctatctgcca cacctactnc tgggngggcg gcatgttgn tgggaccggg cctggctgtt 540
 ggcacctcag gacgaggact gctggcgtct tt 572

<210> 67
 <211> 547
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(547)
 <223> n is a, c, g, or t

<400> 67
 gcacgaggag aactttcagg gaccctgtga agcagctcca gccgagatgt gcgaggagga 60
 ggacagcacc gccttgggtg gtgacaatgg ctctgggctc tgtaaggccg gctttgcggg 120

ggatgatgct cccagggctg ttttcccatc tatcgtggga cgtcctcgac atcagggagt	180
gatggtggga atgggacaga aagacagcta cgtgggtgat gaagcacana gcanaagagg	240
aatcctgacc ctgaagtacc cgatagagca cggcatcatc accaactgng acgacatgga	300
aaagatctgg caccactctt tctacatgag cttcgtgttg cccctgaaga gcatccaacc	360
cttctcaccg aggcgcccct gnnaccccag nncancggn agnaaatgac cagattatgn	420
ttgagacttt catgtccagn ctgtatgtgg ctattcagcg nngctgtccc tctacgcctc	480
tggcgcacac tgnecatgnc tgacttgaga agngncacca cacggccatc atgaggctcg	540
cctgccc	547

<210> 68
 <211> 473
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(473)
 <223> n is a, c, g, or t

<400> 68	
tcttaaact gaagtggact acaccatcac tgtctatgct gccaccggcc gggggacagc	60
ccggcaagca gcaagcccggt ttccatcaat taccgaacag aaattgacaa accatcccag	120
atgcaagtga ctgatgtgca tggacaacag cattagtgtg aggtggctga cttcaagttc	180
ccctgttact gggtagacag tgaccactgc tcctaaaaat ggcccaggac catcgataac	240
gacaactgtg agtcagatc aaacagaaat gacaattgaa ggcttgacgc ccacagtgca	300
gtatgtggac agagtctatg ctcaaaatca aaacggagag agtcaccctc tggttcagac	360
agcggntacc accattactg ctgcgatcct acctgagttt attgagtgc accctaccag	420
ctgactgcca gcgacggcac gcatgtttag ctcatgggta ttggagccgg gga	473

<210> 69
 <211> 326
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(326)
 <223> n is a, c, g, or t

<400> 69
 cggacattca gacagaacgt gcgtaccaa agcaaccgac catctttcaa aataaaaaga 60
 gggctctgct tggagaaact ggcaaagaaa agctccctcg atactacaag aacattgggc 120
 tgggcttcaa gactccaaag gaggccatcg agggcaccta cattgacaag aaatgccctt 180
 ttacgggtaa tgtctccatt cgagggcgga tcctgtctgg cgtggtgacc aaaatgaaga 240
 tgcagaggac catcgtcac cgccgagact accttacta catccgaaag tacaanccgc 300
 ttgagaagcg ccacagacag ggtnc 326

<210> 70
 <211> 553
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(553)
 <223> n is a, c, g, or t

<400> 70
 aaaaagaacc attcggatat atgggaatag tttgggctat aatgtcaatc ggattttctag 60
 gtttcatcgt atgagcccac catatattca ctgtcggaat agacgtcgac acacgagcct 120
 acttcacatc agccactata attattgcta ttccaaccgg ggtaaaagtc ttcagctgat 180
 tggcaacact tcatggaggt aatatcaaat ggtctcctgc tataatgtga gccctaggct 240
 ttattttctt atttacagta ggggggttta ctggaattgt cttaaccaac tcttccctcg 300
 atattgggtct tcacgacaca tactacgntg nccgacattt ccactatggt ttatcaatag 360
 gagctgnatt tgctatatag gggatttgnt cattgattcc actatctcag gtatactctc 420
 acgatacaga gccaaaatca ctcgcatata ttgtagcgnc atataacctc tccacacact 480
 tctagacatt ggctgctcgc gaactcgaca cagagctacc atagaaacta tttcatagct 540
 atcttctac cag 553

<210> 71
<211> 616
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(616)
<223> n is a, c, g, or t

<400> 71
gcacgagggg tatctgctca cgccatgaac aactctggcc ccaccgcca gatcattgag 60
cgggaggggt ggaagaccaa catggacttt gttgggcacg ggaaagctgt gactgtcgtg 120
aaattcaacc ctaaaatctt caagaagaag cagaagaatg gcagctccgc gaagcccagc 180
tgccatact gctgctgcgc cgtcggcagc aaggaccgct cgctgtccgt ctggctcacg 240
tgctgaaac ggccttttgt ggtcatccac gagctgtttg acaaatccat catggacatc 300
tcctggaccc tgaatgggt gngcatcctg gtatgtcca tggacggctc cgtggccttt 360
ctggacttct cctagacgag ctgggagaac ccctgagcga gganagtaga gccgcatcca 420
ccatccacta cggcagagct ggcctcatga cgagcccact gtcacgctgt catgagacca 480
gaagctgagt acaggcagcg cacagtggac gcaggnccca gncaggacgc gaccggncag 540
aaacgctcgc tccttcgcg ggtcagggga gctgaaatag aaacttgata aagaggagga 600
cgaacggggg aaaacc 616

<210> 72
<211> 469
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(469)
<223> n is a, c, g, or t

<400> 72
tggagttctc ccaccacgc cggttctggc ctgccattga cgacgggctg cggcgggctg 60
cctatgagcg gggcgtcaag gtacgcctgc tgatcagctg ctggggacac tctgaccct 120
caatgcgggc cttcctgctc tccttggtg ccctgcgtga caaccacacc cactccgaca 180
tccaggtgaa actctttgtg gtccctgcgg acgatgccca ggcccgaatc ccttatgccc 240
gcgtcaacca taacaagtac atggtgactg aacggggcac ctacatcgga acctccaact 300
ggtctggcag ctacttcacc gagacggcag gcacctcgt gctggtgaca cagaacggnc 360

gnngtggcct gcgaagccag ctgaggncog tgttccgggn tctcccatcc ctgtccctgt 420
 gcccnccgct ctgttgaccc gntgtgatca ncaggctcct ntcgcaacc 469

<210> 73
 <211> 468
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(468)
 <223> n is a, c, g, or t

<400> 73
 gcacgaggca gtgtctttcg caggttcgtg gtgcggacca tgtgtgcagt gctggggctc 60
 gtggcccggc aggaggactc tggactccgg gatcacctg tcagggctct catttccaac 120
 cacgtgacac ctttcgacca caacatagtc aacttgctca ccagctgtag caccctctta 180
 ctcaatagtc cccaagctt tgtgtgctgg tctcgngct ttatggagat ggatggtcag 240
 ggcgagntgg tggagtcact caagagattc tgtgcttcaa caaggcttcc cctacccct 300
 ctgctgctat tccccgagga agaagccacc aatggccggg aggnngctct gcgcttcant 360
 tcctggccat tttctattca tgatgtggta cagcctcttt actgncgagt ncagagacct 420
 cttgtctcgt gacggtgtca gatgcattct ggtctanaat gctggtnt 468

<210> 74
 <211> 349
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(349)
 <223> n is a, c, g, or t

<400> 74
 cccggggcgg cgttaactag gtcccggctg agcggggcgg catcccagag gccaatattgc 60
 tgaccctggc ccagaaggca gtggagctgg cctcgctgca gaacacaaag gatgccagtg 120
 gctctgagga gaagagaaaa agtgtgttgg cttcaactac caagtgtggg gtgggagttt 180
 tctgagcctg ccttanccaa gcgagcacga gaggacagcg ggatggtacc cctcatcatc 240
 ccaatgtctg tgcctgtgcg ggcagtggac cactgangc agctcagctg naggtgtgat 300
 gagatgaaaa ggtnccgaca gcacctgctg acacaaccgt catcatttg 349

<210> 75
 <211> 509
 <212> DNA
 <213> Bovine

<400> 75
 ttaccatgga tcctccggac tgcattgcaag ctgagtgtct tcccttgccg tccccgctcg 60
 tacagtctcg ctcatctcgt tgccgcccag tccccgcgcc ccccgccgt acgagcatcc 120
 ggcccccgta gcggacgcca tgctgcgggc acgccccgtg ctttgggctg tggttttgac 180
 cgcactgacg ttgttccgcg gtccgcccgt ggttcgagct ggggcgggca cgatgggcgc 240
 cggcccagtg gtgcgctgcg agccgtgcga tgcgcgtgcc gttgccagt gcgcgctgcc 300
 gccccctcc tcccgtgcgc cgagctgggc gcgagccggc tgggatgctg tctacgagcg 360
 cgctgcgcga ggtcagcctg cgacgccatc cgaggggtgtg ttccggctcg ttgtcgtcgc 420
 gctgtgatcg cgcccgttca ggttgtggtg gcggggctcg gccatgcgcg cgtgtgcgct 480
 gccttaccgt tcgtcggtag gatgcgtgg 509

<210> 76
 <211> 590
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(590)
 <223> n is a, c, g, or t

<400> 76
 aattggcccg aggcgggatcg cccctcgact gcagtctttt tgcattcgag agaccatggc 60
 gggctccccg cgcgccccac tgctcctgct ggcattcctg atcgtcgccc tggccctggc 120
 cctggccgtg agccccgcgg cagcgcaggg ccctaggaag ggtcgcctgc tngcggcct 180
 gatggaggcg gacgtcaatg aggagggcgt gcaggaggcg ctgtcctttg cggtcagcga 240
 gttcaacaag cggagcaacg acgcttacca gagccgcgtg gtgcgcgtgg tgcgcgcccg 300
 caagcaggtc gtgtcaagga tgaactatct cttggacggg nagcttggcc ggactacatg 360
 taccaagnnc ccagccatct atacagctgt ctttncata ccagccgcac ctgagaggga 420
 aagctgtgct cttncagtnt acgncgncca tggatgacac atcanctgnt gaantnagct 480
 gcagnataac agcagccact gaccgcttca tctgctctgc gaagccacac tggnggnnga 540
 tgctatggcg gcctcccatg cgctgcaac agctctggca tgntgattgc 590

<210> 77
 <211> 268
 <212> DNA
 <213> Bovine

<400> 77
 tttaggagcc aaggcaattc agctgaacag taacagtgtt caagctttgc tacttaaggg 60
 agcagcgctt aaaaacatgg gcagagtcca ggaagcaata atacactttc gggaggctat 120
 acgtcttgcg ccttgctgct tatattgtta tgaaggcttc attgaatgtt acttatectc 180
 caacaatatt cgtgaagcac tggttatggg ctatcattgt tactaaactc ttagagcaaa 240
 tgcacaaacc ttttaccttt accaccgc 268

<210> 78
 <211> 379
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(379)
 <223> n is a, c, g, or t

<400> 78
 tgagagtga actgcagccg gcgtccagct ctaagcttcc tgctttcagt cctttgacgc 60
 ctccagctgt gatctctcag atgctgctgc tggacaatcc acacaaagag cccatccggt 120
 tacggtataa gctgacattc aaccaggggtg gacagccttt cagcgaagta ggagaagtga 180
 aagactttcc ggacctgaca gtcttggggtg cagcctgact cctcccatga cagagcttgc 240
 cgttcacgct tatgctaattg ttccttttgc tgtctagata ggactgatca tgggtgattta 300
 gtgcagagtg ccaagagttc tgtctgaca tcnagctctg gatgccagcc tccgacttat 360
 ttgcanagtg tgttgtggt 379

<210> 79
 <211> 616
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(616)
 <223> n is a, c, g, or t

<400> 79
 ttttttttta aaaaaagatt acagaaaaca ctttactgaa attcttcttt tgctaaaaag 60
 acagtcgtta aggatctgag agacagcaag cacaacacag tacaaaagga gaaggggaatg 120

ttgaattcca gtgcaagaca ctaacacagc acaattaggg aaccaggcgg aagcaaccat	180
ttcacaaaga atggaattag gcattttatac ttaatcagga tttttttaag ctttaaaagt	240
ccagcataaa gaagggaatt gngaagagt gatggngaca ggggctaagc ttatctacaa	300
tcaccatttt accaaaaaac aactggctc aaccacgtga gaagnggagg ntaaacctgc	360
ctacagaggc ccagcaatag agcaaatgcc taggcagtca ctttttagg tgtcgatgtc	420
acattggctg tacatgttta agggacttga ttcaccagac tggctccatc acctggctac	480
gaagttgagt tcttgcatg ctacagagc agcttactgn agagtcacat atagctagt	540
ctgtttacgn ctgggncaag gctctataac tcacttctag gagtttagat acagattaat	600
cagcacctag aggaaa	616

<210> 80
 <211> 581
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(581)
 <223> n is a, c, g, or t

<400> 80	
ctacaaccac ctctacctcc aaggcaatag gatcaatgag ttctccatca gcagcttctg	60
caccgtggtg gatgtcatga acttctccaa gctgcaggtg ctgcgcctgg atggcaacga	120
gatcaagcgc agcgccatgc ccgctgacgc gccctctgct ctgcgcctgg ctagcctcat	180
cgagatctga gcgcactgg gcgcagggcc atgccccac gcctctttgc atttggcttg	240
atggtttggt ttggcttttg atggaaggtc tngacagac cgcgtgacag aagnccatgg	300
gctctctctc tagtcttctt ccctgtaggc agntntaggg gnagncaggg agacagcagc	360
nttctgctga aggacatgac acgtccgttt ccaagacaga agtggttggc agaaggtngt	420
aaccctgaag nccagncccc gaaactcata ccctcagtct cacaggatca gggnctgaca	480
tgntgagca taatactggc tttgagtatg ctgattgaag cagactgacg ctcccgggcg	540
gctggcggcg aacttggccc nagtgtgttt aattaccttg c	581

<210> 81
 <211> 333
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(333)
 <223> n is a, c, g, or t

 <400> 81
 gcacgaggcc ctgtacacat atcctgaaaa ctggagggcc ttcaaggccc tcattgccgc 60
 tcagtacagc ggggctcagg tccgcgtgct ctccgcacca cccacttcc attttggcca 120
 aaccaaccgc acccccgaat ttctccgtaa atttcctgct ggcaagggtc cagcctttga 180
 ggggtgacgat ggattctgtg tgttcgagag caatgccatt gcctactatg tgagcaacga 240
 ggagttgcgg ngaagtactc ccgaggcagc agcacagggtg gtgcaggggg tgagctntgc 300
 tgatagcgac atagtgccac cgccagctgg ggg 333

<210> 82
 <211> 381
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(381)
 <223> n is a, c, g, or t

 <400> 82
 gcacgaggca ccatcgagaa cgtgaaggcc aagatccagg ataaggaagg cattccccct 60
 gaccagcaga ggctcatctt tgccggcaag cagctggaag atggccgcac tctttctgat 120
 tacaacatcc agaaagagtc gaccctgcac ctggctcctcc gtctgagggg tggatgcag 180
 attttcgtgg aagaccctga ccgggcagac catcacctg gaagtggagc ccaatgacac 240
 catcgagaac gtgatgcaa caatccagat aagagggcan tccccccgcc ancanagctc 300
 atctttgcgg cagcactgga aanagacgac tcttttgata cacatcaaaa naatgacctg 360
 ccctgtcctc gtgggggggg t 381

<210> 83
 <211> 568
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(568)
 <223> n is a, c, g, or t

 <400> 83
 tccagtttgg taccaatgat aaggactcag acttgtgtct ggttgtgaga gagagtttaa 60
 aagcagagaa ggagttaaca gcatcagtta ctgaggccat tcccatggcc cgagactggg 120
 agctgctccc cagtgtttct gcctcagctg agccacaatc caagaacctg gcttctgggc 180
 actgtggccc cgagaccagc tcctcaggcc agcgcttgta ccctgagatc ttctatggca 240
 gccctggggc tcccagttct cacgtctcag gaggagccat agactctcaa ttacatccca 300
 acagtggagg cttcgcctct gagacacct cactgcactc ttacagatca cagcccctgt 360
 acctccccac ggtcccagcc ccgccctcgg cactgctctc agggntagct gtacaggggc 420
 catttctgga tttctncgca ctgcagcaca gtactgngta gctgncgctg nagggttctc 480
 taccctcatc ttcttctnta ctntcagctc tgactatcct tggccaacca cctgttcagt 540
 taagcgggnt gctgctaggt agaggggg 568

<210> 84
 <211> 509
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(509)
 <223> n is a, c, g, or t

 <400> 84
 gcacgaggag atgatccagc tggggaagac ggtgcagtac ctgcccatcc tgttcattga 60
 ccagctgagc aaccgtgtca aggacctcat ggtcatcaac cgctccagca ctgagctgcc 120
 gctcaccgtg tcctacgaca agatctcgtt ggggcggtct cgcttctgga tccacatgca 180
 ggacgccgtg tactcactgc agcagttcgg attctcagaa aaagatgctg acgaagtaaa 240
 ggggatcttt gtcgacacca acttgtatct cttggcgctg acctttctcg tggctgcatt 300
 tcacctactn tntgatttgc tggcgtttaa naacgacatc agcttctgca agaagaaaga 360
 gagcatgata ggcattgtcca ccaaagcagt gctctggcgc tgctcagcac cgggntctct 420

tcctgtttgct gctggacgac anacagctct gtgnctgngg ccggggcatg nagccccctcn 480
agctggaaag gaaaaggnc t gatgacg 509

<210> 85
<211> 291
<212> DNA
<213> Bovine

<400> 85
gcacgaggat tccctgcttc atcctctcac ttccctggaa cattctggca cctccctgcc 60
ccactttggt gggcgggcggg tcctcatgaa cctagtgggg ctcggtgccc cagccccgggt 120
ctggcggccca gacagagacc cgggaccgtc cagcccctac cctctcccac ctgccttcct 180
cctgaggagg gctccacttg gacgccatta gaatggcgcc cccttagctg agtagcggga 240
aacctgagcc caccggggcca gtggacattc ctgcggccag tgggtgctcaa g 291

<210> 86
<211> 296
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(296)
<223> n is a, c, g, or t

<400> 86
ctcgcacaca gggttattgt taccatcttt ctaaattcca tatatatgcg ttagtatact 60
gtattggtgt ttttctttct ggcttacttc actctgtata atagggtcca gtttcatcca 120
tctgattaga actgattcaa atatattctt tttaatggct gagtaatact ccattgtgta 180
tatgtaccac agctttctta tccattcatc tgctgatggg catctagggt gctttcatgt 240
cctggctatt ataaacagtg ctgcgatgaa cattctacca agaggggagg nngggg 296

<210> 87
<211> 300
<212> DNA
<213> Bovine

<400> 87
cgcaccctca ccgagcactc ctacgccgtg tctgccgtgt cttccgtggc tgaggcttac 60
agaaggcagc ctgcccggga acaggacagc agctcacctg cgaaaacagg gaaggagaac 120
tctgaagctg ttgcagcaaa accgaaaaca tgccgaaagc caaagacact ctccgtaccc 180
caggaatcag attccactcc agaaaatata ccaccccctc cagcaagcaa ctgggaggtg 240

cgtaagaag taagtccgca gccagctgca gctctttccc tttcaaatcc ccaccacgaa 300

<210> 88
<211> 424
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(424)
<223> n is a, c, g, or t

<400> 88
ctgacattaa ttgtacaccc aacccttaaa agatatgttc tgaagatgcc tttggtttga 60
aataggaagg ttgaaggaga ccctaagtat tttaggattt tttttttaat aaagttttta 120
tttgcccctt tagcatgttg gcctgtttgc atgtaagggt gggcagaggg gcattttaca 180
cctgatctct cttctccctg ggcttctcct ngtgccaaagc ttggtgggtg gcntaaaagg 240
gnacagacaa atctcctttt ccatcgacct gtaccctctg ctggccgctc ctccaaagct 300
aaaggtccct gtnnctgttg ttnacgcact gctcttgac ctttcaatag aggaaacaca 360
cgtgacacga tcaactcaga ccgcatcagt tttagtgage ctggatcagt ctttcagtct 420
ggga 424

<210> 89
<211> 475
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(475)
<223> n is a, c, g, or t

<400> 89
aattggcacg agggcactcc agctcagcac atgaccctga gaccgccgtc cactgtggat 60
gacaacaggc gggagagata gctgacaaga tctacaacct ggataatggg tacacgagcg 120
gcaaggagca gcaggccgcc tacaacacgc tgatggaagt ctctgcctcc atgctgttcc 180
gcgtccagca ccactacaac tcacactatg agaagttcgg cgattttgtc tggaggagcg 240
aggacgagct ggttttttaga aggcccacct gatccctcgg cggctggaga ggtgagcagc 300
cactggcca gcctcctgcy aagcgcctat atncagagcc gngtggacac cgtgccctac 360
ctctttgccc cagaggnag gtcggnctgc gtatgnnnngn ggntacagca tctcaggaca 420

ccaagcacgt gcgagagaaa atagtgtcat ggnccgaaca ctacgggagg cagan 475

<210> 90
<211> 499
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(499)
<223> n is a, c, g, or t

<400> 90
cgacccccctt gtgttttcatg tccgcggcgc tctgctctgg attcggaac ggataccatg 60
tgcgcgggtc agcgctcggc gggcgccctg gcggcggcag ccccgcgcac agagtacgcc 120
ttctccgcgc gccctctggc cggcggggag cccttcaacc tggcctccct gcggggcaag 180
gagctgctca ttgagaacgg agcatagctc tgaggcacia cggagcggga ctacacccag 240
aagaatgacc tgcagagggg ttttcgaccc cgggcctgga cgagctcggc tcgcctgcac 300
caggtgggca tgaggaaacg ccagacgaga gatctgattg ctgagtacgc cgacagcgng 360
ggtcgagcca actagccttg aaggcgagga atngaagagg ctcgctctgc ttctgggagt 420
cgccagcagg acagcatgtt atacgactag tatacgcccg gggcgaaaag tctgattgaa 480
tctgggccaa gggccggcc 499

<210> 91
<211> 427
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(427)
<223> n is a, c, g, or t

<400> 91
gcacgaggct tttttttttt ttctccttg ctactataac gtttccccag ggatgttttt 60
ccgtgacccc gctggctgta ctgtgaagtc tctatgtttt ctgccttgac gaagcacaaa 120
agcttgagat gctatattcg aaggcgcagt gtgccttcga atgtaaaaga agagaaaaca 180
aatgcagacg gggacccttt taaagtggaa accgaccacc gaggctgggg ggctgccgtg 240
aacaanaacg ccttgcnttt tcaccttgca tccttgagcg atgggtggac catcctgtct 300
gcagagaccc ccctgcgatg cccggggcaa agccagccct aagcatagat gatgatcttt 360
cacacaaaga ggaanttgt aattatactc cgagcgctgg attttaagac atccatgagg 420

gtttctg

427

<210> 92
<211> 442
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(442)
<223> n is a, c, g, or t

<400> 92
cggttttga gtatagccgt tctggaaatc ccaccggaa ttgcttgga aaagcagtgg 60
cggcgtgga tggggctaag tacagtttg cctttgcttc aggttttagca gccactgtga 120
ccattaccca tctcttaaaa gcaggagacc agattatttg tatggatgat gtgntatgga 180
ggtacaaaca gatacttcag gcaggaggca actgaatttg gattaaagna ttcttttgtt 240
gattgttcca aacccaaatt gctntntnca gctattacac cagaaaccna agctgntggg 300
attgaaaccc ccacanaccc tagcttgaag atgatngaca ttgaagcctg cgcacatacg 360
gnccatanac atgnagacat atttngggnt gnggatacac tttatgtcag catattcagc 420
gccttgctct ggagcgatat tg 442

<210> 93
<211> 414
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(414)
<223> n is a, c, g, or t

<400> 93
tgggcccccc tggattggct ggaccccctg gcgagtctgg acgtgaggga gtccttggtg 60
ctgaaggatc ccctggacga gatggttctc ctggcgccaa gggtgaccgt ggtgagaccg 120
gccctgctgg acctcctggt gtccttggtg ctcctggtgc ccccgccct gtcggacctg 180
ccggcaagag cggagatcgt ggtgagaccg gtcctgctgg tcctgctgat cccattggcc 240
ccgntggtgc ccgnggccgc gttnttcccc aaggccccgn ggagacaagg gagagacagg 300
cgaacagggc gacagtagca ttaagggtca cngggctctc tgggtctccag gntcccccg 360
cccctccgct tntgtgagc aggtccttct gagctctgtc tgctgtcccc gcgc 414

<210> 94
 <211> 499
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(499)
 <223> n is a, c, g, or t

<400> 94
 ttggctggac cccctggcga gtctggacgt gagggagctc ctggtgctga aggatcccct 60
 ggacgagatg gttctcctgg cgccaagggt gaccgtggtg agaccggccc tgctggacct 120
 cctggtgctc ctggcgctcc cggtgcccc ggccctgtcg gacctgccga caagagcgggt 180
 gatcgtggtg agaccggtcc tgctggctct gctgatccca ttggccccgt tgggtgccgt 240
 gggcccgtcg gtacccttnn tcccgtggtg acaagggtga gacaggcgaa tcaggcgaca 300
 gtagcataan ggggtcacgt gctctctggt ctccagggtc ccnccgcccc tccgcttnc 360
 gtgagcaggt ccttncgagc tctgtctgct gtcccgcgt cctgcttgc tgttctcccg 420
 cagatgactc atggctccag cccatcgctc ctgcctgagc gatggatgtg tcgctgtcct 480
 cgctcgacc ctgtccagn 499

<210> 95
 <211> 600
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(600)
 <223> n is a, c, g, or t

<400> 95
 tgtggagctc ctggtgctga aggatcccct ggacgagatg gttctcctgg cgccaagggt 60
 gaccgtggtg agaccggccc tgctggacct cctggtgctc ctggcgctcc cggagcccac 120
 ggccctgtcg gacctgccga caagagcgggt gatcgtggtg agaccggtcc tgctgatcct 180
 gctgatccca ttggccccgt tgggtgccgt gggcccgtcg gaccccaagg cccccagga 240
 gacaagggtg agtncttcga acagggcgac agatgcatta atggtcaccg tggcttctct 300
 gatctcaggg taccaccgg cctccnggc tctcctgtga gcaaggctc ancgagcctc 360
 tgtctgctgg gcccgctcc cctgcttgc gctctcngc aaatgactca tgtctccagc 420
 ccacgtccc tggcctgagt cctgtgtgc tgtctgctgt ctccgctct gacctgtcc 480

cagtctccac gggctcactg actctccan cactcaaagt cgagtggcgt tacggcggtg 540
catggnccga cgacgcgggc cactcacgn ccaagaaaac ggcccggccg aaaaaaaaa 600

<210> 96
<211> 457
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(457)
<223> n is a, c, g, or t

<400> 96
gcacgaggca gagtcttgt gacgattgcc gcgttcgccc cctcagtcca ctccgccagc 60
cctccaccgc tgcgccccgc cagcccgccc ctttctgtg ccaggcactg acaggcacca 120
tgccccacca ataccagca ctacccccg agcagaagaa ggagctctgt gacatcgctc 180
accggattgt ggctccgggc agggcatcct gaccgcagat gagtccaccg ggagcattgc 240
caagcgactg cagactnttt acaccgagaa cactngagag aaccggcgct actaccgcca 300
actgctgctg actgccgatg accgcgagaa tccctgcatc ggggcgtcat cctcttcacg 360
agacgctgta ccagaagccg atgatgggnc gnccttcccc ccagttataa agcccaggcg 420
ngggngggc aataaggaga aaaggggggg gncctg 457

<210> 97
<211> 270
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(270)
<223> n is a, c, g, or t

<400> 97
tcggtgggat ctctttacgt cctctggact ggaggccgag ccccgccccg cggccgagcc 60
ccgcgccccg cgtctccgcc cgggtgtgctc tccgcagtgt tcctgggctt gggaagacct 120
cggggaacat ggcgaggcag cgggtggttta acgggaagga cggtgactgt tagcctgtga 180
acgaaagcga gagtgagccg cctcacgctc cggaccaaga gtgatcttga acttgaggct 240
gctactagat tattgccac acctgctntc 270

<210> 98
 <211> 420
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(420)
 <223> n is a, c, g, or t

 <400> 98
 taaaaaaagg aagcttggtc cacttgcttg aagaccacg tgggggtaag tccttttctg 60
 cccattgggc ttatgacacc ccagcactgc cttttctgct cttttctcca tgccttctta 120
 gggcctcccc tccactgggc cccaaatcta agtctccca aaagacacag gaaacaatgc 180
 attgtctgcc cagcaaccaa aggcaatgct gaaacaccca agaggccccc aactcccag 240
 cccacttcct tcaccagaa cctcntnttc tgggggacct ggagtgtca gactgccana 300
 gaagctttac catctggcat ccctggggcc cgggcacatt cccctcttgt tttgagggaa 360
 gcatgccagg gggacactgg cccttcatca cagntggagg aangcagaag ggnncagang 420

<210> 99
 <211> 497
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(497)
 <223> n is a, c, g, or t

 <400> 99
 tctcaactcc atgatttgtg gagagaagga acgaatcttt gatgggaaaa acagagaaaa 60
 atccctcttt tttccccccc attcttataa aatcttcctt tcatcagttt tttataaaag 120
 ttgctttttt catttgcaag ttgtacagtt taccactact gctgctgcta ctgctaagac 180
 gcttcagtcg agtccgactc tgtgcgaccc catagacggc agcccaccag gctcccctgt 240
 ccccgggact ctaggcattt agaaattntt tttatctgtg aggtattata agtcattaac 300
 tattcccttt cgataataga tgtaagcaac tattaataat attagttagt cacagatttg 360
 actgaaaatc tcttacaaga agaggaacag aaataangag cagntngaag ggngctgnaa 420
 catggaaaca tcaagaaagg ngacacactg tttttttttt ctatctctat gtttaattta 480
 gnaaaacaac tntgatg 497

<210> 100
 <211> 433
 <212> DNA
 <213> Bovine

<400> 100
 aggaaggtcg gggctggggg ggggaaggcg cgggggtggg ggggggagga ggggaagggg 60
 aggggggggg gggcgaggag gggagggggg gaaaaggggg aggggaaggg aaagaaagga 120
 ggggggagaa gaaaagaaaa gagaaagggg gggaatttga gaaggagggg aaaaaaggg 180
 gaaaagggaa aaaagggaca aaggaaaagg gggggggggc gaaaaaaaaa acgggaaggg 240
 gccgaacgaa ggaggaaaaa acaaaagggg aattaaagca gagagggaaa ggggggacta 300
 cgggacaaag ttgggaatga aggaacaaag gccaaaagac gcgccccagg ggccgggaaa 360
 aaaacaaaaa cgagataccg aacgggaaag gaaaaaaaga tacgattaaa aacccccccc 420
 ccaaatacgg gaa 433

<210> 101
 <211> 194
 <212> DNA
 <213> Bovine

<400> 101
 aaatattaag aacgtaagaa aagctcacta tatagaaaat gctatacccg gaacaaaaca 60
 atggggcaaa tgctggtgga ggagacaaaa gggaaaagca aaggcaaaat ggcagggagg 120
 aaggagaggg aaaagaaacc ggaagggcgg gaaaggcagg gagaacaccg cgggtgaagg 180
 gcgggataga gatg 194

<210> 102
 <211> 250
 <212> DNA
 <213> Bovine

<400> 102
 aataagaaat aggctccttg taagtcttta tgaaaacgga aacttagagg gtaagaggac 60
 tgggtggggaa tacaagttgg ttgggattaa gagatgatga gcaggagaaa gaaaaattat 120
 gaccatatat ggaatggagg aagaggaggg aatatgggag aaagaaaagg gaaagggacg 180
 gacggcggct ttgaggaag aaacgcggtc ttccaagaaa tagaataaaa gaaaaagaag 240
 aggagggggg 250

<210> 103
 <211> 365
 <212> DNA
 <213> Bovine

<400> 103
 aggggggtta atagaccgc gcggggccgg cgctgatata ccacctgggg gaacccttcc 60
 gcgcagagaa aagacctgga cccaggcaag agggacagag acatccagcc gaagaagggc 120
 gcctgagaaa acatatatgg gaacgacaaa agagacacta tgaggcaaag ggcttgggga 180
 tccattgtag gagggatcca aagccaatgc ctgagcgagg aagaacctgg ccttgggaacc 240
 aaaggccaca caccgcgaag gagccaacaa aaaggggagg gggcctcttg gaacgaaaag 300
 gctgcccga aaaaataatt gaattggggg gaaaaaatgg caaaaacct aaggggggtg 360
 gccgc 365

<210> 104
 <211> 260
 <212> DNA
 <213> Bovine

<400> 104
 gcgtgggctg ttaactcggc cccgtctcgc gttccggcct ttgatattct tcattctcgt 60
 tgggtaaccg atctcgcgca gactgaaaat accctggggc accctatggc cacaagcttg 120
 gtgacccaaa cgctaccact cgccagttgc cggacatgat atgtgcgcct gtgagattag 180
 agagataagg ggaagtgaga gagagagaag aagagggggg gggggagggg ggggggggtt 240
 ttgggggggg ggggaggggg 260

<210> 105
 <211> 127
 <212> DNA
 <213> Bovine

<400> 105
 ggggcgcgcg ggctctggtg ggccgggagg agggggtagg ggggcacggg gggggggagc 60
 tttggcagga tagaggcccc aaaaggagag ggaaccgcgc gccccggggg gggcagggcc 120
 tgggcgg 127

<210> 106
 <211> 439
 <212> DNA
 <213> Bovine

<400> 106
 ggctgtgtgg acttacagga ctctgagggc gctcctcatg aatgaaaatt aagcaacacg 60
 gaggggaaggg aaagcgcacc acttcatata acttaaacag ttgtgagcaa cctgggctagc 120
 ctggctggcg ctatgagacg ggagctgggc acgaagagcc actggtcgta agaaaaggaa 180
 gtcggggagt ttgaggcgca aaaaaaaagc ccgcagcccc cggaccgtca agccaaatgg 240
 ggcctgggga ccaggggacc aaggggacgac cagcgggaca gggccagagg aacgtaagaa 300
 gggcaacgca aaggggcaagg ccgcccaccg ctaaaccaca ccgcacgccg cccaataaaa 360
 catggggtaa agcgcgcctt ttgtccccgc cccccctca ttttctgggg gtcggtattt 420
 gttaaattaaa aaaattttt 439

<210> 107
 <211> 247
 <212> DNA
 <213> Bovine

<400> 107
 cacgggtgcc ctttaatatg gtcccccggt ctgctgctga tttctttttc ttttggtagg 60
 ctgatgcact ttgttttgcc agtcaatggc aagataaaac taagtgagaa agaatgcaag 120
 ggataaaaaa aatttgcata gggcatgtga aaatgtctcc atttttgggtt gttggggtta 180
 agatgggggtg gtgtgggggtg aagtagggga tgggggttag gggaggaggc aggtggtgaa 240
 ggggagg 247

<210> 108
 <211> 587
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(587)
 <223> n is a, c, g, or t

<400> 108
 caggggcgtc gtttactttg attccccggt gcggaattcg cacgagattg atctaccagc 60
 tccaattaaa actgcaggca taagcccaaa atgtgactaa tataaaagcc ctcaggcatg 120
 taattaaatt atcccagtgc ctttttttagt ttttaatatca agattgaatc tgttatgtag 180

aggcaccaaa atgaatgtca tgctggnagt ctgtatgcat gactcaaata tacctaatac 240
aatgtcagag ntgtataagc cagcagaatt tattttatag caattcagta tctgtttacc 300
tacaggntcg ggggtgggga gtatattatg aagaatcaga ttagaactga ctactaagag 360
actatggatc cactattagc cactcaatat agaccacgct agaccnaga gagctataca 420
aaacaaaatc tattcnccct acttatttaa gtctccttta tacataccag gcctactgct 480
agacgaaagt gaggggcctg ggaggcacac tgactccctt cctgcccagc ataggaataa 540
gagtcaaaga gagataactca cacctttccc cttcgggcta aagcgcg 587

<210> 109
<211> 41
<212> DNA
<213> Bovine

<400> 109
cgctgcatgg cacatgccgc cacaatgcc aactatacca t 41

<210> 110
<211> 525
<212> DNA
<213> Bovine

<400> 110
cacggggggc gtctaaacta gggatcccc ggctcagaac tgcacgagta gaacaaacca 60
cacgttaata ctgctgtgtg atatgaagcc atagatcttc tactatgctt ggatacgacc 120
tacgcccagt gcagagtcgg ggggtgcgtgc ttacagacca gatgatgtat gatttgcgct 180
ggagcatgcg agaagataaa taactaccct agcgcggaaga ggctctatag cataagtatg 240
cgagaacatg cggaccagtt ctgaagtaga ataagagcat gctggagctg ttcttgcagt 300
ggacacagtg aaagacacat aggctgacaa cagatgtgca tgacagatga gagacgactc 360
accgaggaag acacaaaaaa taaggaaagg gcgcagaaag tgagcactca gaggtaactg 420
gcgacatggg acttggaat cagcgagga gacgggccta ctcacgctgg cttttgcaca 480
cctaattgag aaaggagcga gggcgactgg ggggtgggggt gtgtg 525

<210> 111
<211> 363
<212> DNA
<213> Bovine

<400> 111
aggggctcta acagtccgc tagatgccag catctctcag aagcgaggt cgcactcgg 60

aggagcgcgc caggcaggcg gggagcgagg gacgagagac gacagaaggg ccctaaccga 120
aactgtgccg cccaactggc agctcgagga aacgtacgcc agtgagaccc aagtttcctt 180
atcagagacg gcagaacact acggtggcga gagcccagcc gagcgccaag cctcgaggcg 240
ggaggagcag ttggctttgg gctgctgtaa gcagtgacca cacgcgttaa agtctcagac 300
cccaaaaaaa aaaaaaaaac gggccgccag ctagagttaa cgcggtaggg aggacggtcc 360
tac 363

<210> 112
<211> 431
<212> DNA
<213> Bovine

<400> 112
aggggcttaa ctgtcccgtg gctgctggcc gggtagact tttgctacc gatcaaccgg 60
cgacggggcg tcgctccgga ctgcgagcgg ggagggtcac tactctgcga cgaggggaaga 120
gcggcgtgtc cggagcagag gaaaaattga ctaatgaacg atagagctct agttttgctg 180
gaccccgaga acgacactcc gccaccacgg atcccaggac tctgacgaac caaaagcatg 240
atgagagacg aagtaaaagc tttgtgggga ggaggggaac acctatcgac acgaccccg 300
gacaagggat ggggcaccta gatgaagaaa aatacagtga gttatgagga aaaaactgaa 360
cttgtaattc cactgagggg gtaaataatc aggatggcct ccgcgctctt gcgaaaccgc 420
tttctttaaa g 431

<210> 113
<211> 326
<212> DNA
<213> Bovine

<400> 113
gtcgcgcaga acgcagaaca gccccgagat caccagact gccgaacgag ccagacttgg 60
ggtgcccctc gaaagcagac agagctgaac taaagggcc tttttggacg ggaaccacgc 120
ctgatatttc aaaaaacaag cggcaataga gagctgtatc ccactactt atagcaaaacc 180
aaggagaagg cccaaaattt tcaaaacaaa gagaaagact gggatttgcc caaagtagga 240
ggagcgaacc ggatcccctc aatcaatgca cagatcaatt actaaagctt cccggcaaaa 300
actgtgccgc ctcaacatta gaacga 326^c

<210> 114
 <211> 120
 <212> DNA
 <213> Bovine

<400> 114
 cagggggcgt taacaggatc cggctgagga aaagtcattgt acgcatgcta ccaggaaaga 60
 aatcaaggga cggcacttga gaagccttta tgggggggtga ggagggggggg ggggggggggg 120

<210> 115
 <211> 182
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(182)
 <223> n is a, c, g, or t

<400> 115
 gcacgaggct gtttcattag ctgctttata tggagaagag agaaattctg tgtctttcca 60
 gatcccaaca aggggtgcat agagtctgaa gacattcttt tctattttcc taatccccct 120
 tctgctgtct ctgggagtgc ctactggcac agaggcaagg tatttgcaga gaacagaaan 180
 gt 182

<210> 116
 <211> 244
 <212> DNA
 <213> Bovine

<400> 116
 cccgcgtcta ctttcagagc cccccggggc tgcggcgagg cccggggcgcg cggacgagag 60
 ggcccatgag gcgccaggga aggtcacggt caagtacgac cgcaagtagc tacggaagcg 120
 cctcaacctg gaagagtgga tcctggagca gtcactcgc ctctacgact gccaggaaga 180
 ggagatccca gagctggaaa tcgacgtgga tgaactcctg gacatggaaa gcgatgatac 240
 ccgg 244

<210> 117
 <211> 281
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(281)
 <223> n is a, c, g, or t

<400> 117
 cacgggcgct taataggtcc cggctgaggt tggctgttat tggattgtga aatgcttact 60
 acgaaaatct gaagctagcc aacgatgatt gaaatcacia gtgggacagc aggaggagta 120
 tcagctctct gaaactctca gcagctcgcg agccgcataa cactgcgacg ataacagaga 180
 cgcttggttca gtcctnagaa tcacaaacca gcagatgaac taaagacgca ggacaactat 240
 tcatacccat gttggaaaca tgacttcaaa aaataaataa t 281

<210> 118
 <211> 419
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(419)
 <223> n is a, c, g, or t

<400> 118
 gttaatagat cgggctgagt gaaatgtgac accattcact caaaaaggat tgaccctaac 60
 cagaggacct actgcaacga gcatcactgg cccagcttga gcagggacag agagagtcag 120
 agctgcccct gtacgcaaag gaagcagctc aggtagctcg caatcagtga gagagtcgga 180
 caatgaaaca gattncgcac ttgttgccgc ggagacgaca ggcacgcacn gctgtgcagc 240
 agcccagacc atactcaacc tacaaaacgt caaagtgaag gaatgtgaga agaagggcag 300
 ccgtgaacac acgacgcttg ctaacagaac aaaaccact gccaacagcc gacggccacc 360
 ctaaaccaga gactaaagaa aaaaagacta cacaacctg gggattgaaa ggcgcgagg 419

<210> 119
 <211> 502
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(502)
 <223> n is a, c, g, or t

<400> 119
 ggaaattgcc ccagatgcgt ccttcattga tgacgaagca ttttaagcggc tgcagggcaa 60
 aaggaaccga gggagggagg agatcaactg tgtggagatc aaaggtgacg accagctcag 120
 tggggggccca gcagtggatg accaagtcac tgacagaaga agaaacccatg aaatcattca 180
 gcaaaaagaa aggtgagcag ccaacaggcc agcagcggcg gaaacaccag attacgtacc 240
 tgattcatca ggctaaggag gttntnctgg agctgaagaa aactgggtcg ggagaacaag 300
 ctacgccgcc ggcagaccca aagcaaatan ncgatctagg gctctggact gactgctctg 360
 gatcncgtca agccactggc tcggggcccag ctcgncctctg gacccagctg atcgagccag 420
 atctctttcc tgagaccnag cctcgctctg gagatgacta ttgaagattt tctacaaagt 480
 aaaaatcact cttctggctg ga 502

<210> 120
 <211> 559
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(559)
 <223> n is a, c, g, or t

<400> 120
 tttttttttt ttgcaacagt aacccccctgt ccagagtctg actgtagctg aactgttcag 60
 actgaggaat ggagcaggct gtggggcgac gcctgatccc tcctggggcga gcgccccac 120
 cctcagggaa caggctccag ccagaccagc tcaactgctt ctggccacca cacactagcc 180
 atacagaaca tcatcattat cttctgagta cacactgcc cctgtgccac cgccactgcc 240
 ctgacgggga cagctcattc tngttactga gggaaatctga gctggcaagc ctcgacttgc 300
 tgaagggctg agcaacattc atactgcgga gtcattatac tgacagacgg cggcaagcgc 360
 atagctctca aggatccgcg gatctagcct gatcatcttt tattcatgct gacggtgttg 420
 cgtccgtctg ccattacttg atgatcagag gcaactgaggc gtgcaattgg cagcatcaaa 480

acctatcttt acagactatc atctgcatgg ctggcgtgct gaagaacggc tcttgaagga 540
aaaggaaagg cgggagagg 559

<210> 121
<211> 524
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(524)
<223> n is a, c, g, or t

<400> 121
ttctatacta tggatccccg ggctgcgggt tttttttttt tttttttttt gaggtttaga 60
atctgctttt attatgaata taaaatatac atacaacata atacacattt acacattttac 120
aatttgcagt tagtttctact tttttgagca cgtttggttc tgcacggcac agtggcccat 180
gttccttcca cttacactca agacattctc ttcaccttga tacatacttg ggaagaaata 240
ccaggccgag cgtcanatgg ccagcttcac tgtcttccca gaatcacttn tcttctgatt 300
cccctttgct gctacagggt ttcattggccc taaactccag cataaaaaat gcagagaaaa 360
gaggctgcag aatccccctt gnttttcaaa tcacctgaa acatcccacc tgacgaggng 420
aacatcatag catgctggat aacatagcta aaaactacta caggagcttg aaggacacat 480
acaactaact gtcacatga tgatacaagg atcgaatcgg gtat 524

<210> 122
<211> 640
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(640)
<223> n is a, c, g, or t

<400> 122
taattcggca cgagggttgc tttgggagct ctccagcacc ttcaggaaag gtacaagaaa 60
ttnttaacaa atcattttta aatgcaattt aaaattctca ataaaagtga ttttttaaag 120
acatttattt atggctgagc tgggtcttct tcgctgcgca cgggcttcgt ctagttgctg 180
tgcaagggcg tctcattgca gagacttctc ttgttgacaga gcacaggctc tagacgcgga 240
gctgcagtac tttncgcaca ncnntcagn agntgtagct ccagactgt agagggcaga 300
ctcagtagat ggggaggggc acagcttagt gctctgaggc atgtgagaat ctccagatca 360

agaatcaacc tgtgtctcct gcattgcagg cagattcttt acactgagcc tcaggnaagc 420
 caaangnata ttaatatata atactctgat tgatatgaat ttttttttcc tgtaatcatc 480
 agaaaaaggg cggcaacaaa aactacgcca agcacactgc tcattctcatt acttaaaaca 540
 naactacgtc naagaagaga gaacttctat acagattacc agactttaaa aatagtgggc 600
 tggaattggt ttatgggaat ggaaaaaatt tgtttcccg 640

<210> 123
 <211> 305
 <212> DNA
 <213> Bovine

<400> 123
 agaagacaag gaaacagaga agaacaaggg cacccaaaca cacacacccc gggccctgcg 60
 gttcggacgg atggtgccgc cctgaagaac tcccagaggt ccgaagggaac ggaaggggga 120
 aaagggttgg gtggaaaccc ccccttccg gcggccatct ggaccctttt acccagaggg 180
 ggctcgccct aagaggttta tgtaggccgg ggggccgaat aactgcaaag aaattaagtg 240
 cagagtttta aagtgaaaat tttttgaacc ctacctccta atttgttttt ctgggggggg 300
 tttag 305

<210> 124
 <211> 359
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(359)
 <223> n is a, c, g, or t

<400> 124
 cgggggggta tagtccgcta gtggcgcggg tggttgtag aggggtgtaat gtagacagct 60
 attagaatac aaggaattaa aaaggaaggc aaaatgatat atgtgaagat gtaatcaata 120
 aaaaagacac aactaatca agtgtggtag acaaatatat tgtaatgcta tgcgatagag 180
 aatatgattt tggcagcttt gctacgactc caatatgngg aagtggncga aatttgtggg 240
 tttgacggcg tgtggcgcg cctatagtgg tgaaatttga gcaggaggag gagatcagga 300
 agtgggcacg gcttctgtcg agcgatgcaa tctcgatagg ttgggctagg gcggagggt 359

<210> 125
 <211> 259
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(259)
 <223> n is a, c, g, or t

 <400> 125
 gcacgagggg cagaggtgca actttcttcg ggcggcccgga atccgggttc atccgacacc 60
 agccgcctcc accatgccgc ctaagttcga cccaacgag ataaaaggcg gagcgtgctt 120
 tagatgtggg ccggggcttc gggatgcggc atccctcccc gtattncgtc cgggccgcgg 180
 cgcccgccgc tatgggcttt ccacgtcgg gcctcaaggc cgctgcctcc taagggccct 240
 gcctctggtg ctgnnnnna 259

<210> 126
 <211> 557
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

 <400> 126
 gcacgagggc tccccctcc ccccgagcgc cgctctggcc gcaactgcgt cgccctgagc 60
 tccgggctcc tgctaagcca gcgccgtgt cgctccctc cagtcgccat catgatcatc 120
 taccgggacc tcattagcca tgacgagatg ttctccgaca tctacaagat ccgggaggtc 180
 gcggacgggc tgtgtctgga ggtggaggng aagatgatca gtaggacaga tgataacatc 240
 gatgactcgc tcnttnatgg aaatgcctcc gctgaaggcc ccgagggcga aggtaccgaa 300
 agcacagtaa tcaactggtgt cgatattgtc atgaaccatc acttgcagga naccagcttc 360
 acaaagaaaag ctacaagaan gtacatcaag attactgaag ncaatcaagg gaacttgaga 420
 acagagacag aagagaanac ctttatgaca gggnctgcga acaatcagcc atccttgcta 480
 ttcaaacatc agtcttatgt gaaaactgat ncaatgcatg gtgcttgtga ctacggagag 540
 gggnacccat atgattt 557

<210> 127
 <211> 529
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(529)
 <223> n is a, c, g, or t

 <400> 127
 gcacgagggt gctttgagtt ccgtctgcgg ccaaggagct cgtccccac ctacccccac 60
 cctcttcttc tctctccca atcccaggcg ttcccgacac tctaggcgtc aggaggcacg 120
 ccgaccagcg ttccggctgg ggaaaggggt gcgagcggga ccgcccagcg ttggggttct 180
 agtgtgagac gcaggtgcgg tcggtntcag gaattaggac atcggctggg cctgaaactc 240
 gctgggcatg cagnnntgt ccctcgnccg cggagactgg ctgtctcacg gagegaggga 300
 cgtgcatgta cccccgctc agaaagcggc cngctggcag cctcatggag gtggntgtg 360
 agcagtnga ataacacgcc anaaagctag cagctggcga caaagtcaaa tcctctgcgn 420
 nccaccacc cagcatcagc aactacgcca gggacagngc ctgcccattc gngtctcgtc 480
 ctccgacccc ctccccccc ctctctgcta ctcccngcc acgnatgtg 529

<210> 128
 <211> 491
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(491)
 <223> n is a, c, g, or t

 <400> 128
 tttcttgga ctaagaagga cttacctgac attggcctca ttctggcctt cacttggtca 60
 taagaatcat ggaaccagag tttgagttaa gaaacttgga aaaagcagct gaaaacatct 120
 cagagtccac ttaacaattt aaaaattcca cttaagatgc taaataatcc attgcttatg 180
 tagcaactca acgatgttct caggntcccc agttctttct gtctttcccc tctngatcc 240
 ttattgtatg gggctttggn nncacggnt tctcagngag tacatatagg ctgntgctgc 300
 ntcagacatt tncatctctc tcaagactgg nagtaggnag caaaccttn gtctttcagt 360
 ctctgttttt atttggaaga anaatctctt ctcaaagtcc tcacatttnc ttnatctcat 420
 acataggatt tccctacaat ctgatcacag gagctgaaac gacaggangg nagtgatgct 480

ggtagaccat g

491

<210> 129
<211> 556
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(556)
<223> n is a, c, g, or t

<400> 129
gcgttaacta ggggtccccgg cgcggggtct gcttgcttac aggctggacg gacagaccca 60
ggacgcccct tgctccagcc tccgaccacc ctccaacctt ttttccagtc gcaaccttcg 120
gagtcagcca ctgagctgtc cgcgatcacc gggaccagcc accatttttt aatctcttat 180
tattaccgac caatcatgag ctgccagatt cgtcagaatt atttctacga ggtggtaggc 240
gnncgtcacc gcttggttaa catgcatctg cnnnnctcta cacctacctc tctctgggct 300
tctatttcga cgcgacgatg tggcctggag ggtgggggtc actttttcgc gaatggncca 360
gagaagcgcg aggcgggaac gctcttgaac ctgcaaacca gcgggcgggc ggccctctct 420
gggaggncaa aaccatctag agangggggg aaaccagacc taggagccgc tctcganaga 480
aaactgatan cnttggacgc aggctggctt gcccggaacc caattggact ctgaaacatc 540
taatggaaga ancaaa 556

<210> 130
<211> 671
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(671)
<223> n is a, c, g, or t

<400> 130
ccaccgtgtg gcgcccgtct atactatgga tccccgggct gcaggcttca gtggcagcca 60
gtgcaggggg tcagggatca tgggggagag cgctctggag tcggggcctg cgccccggagc 120
gccggcaggg ggtccggtgc acgccgtcac ggtggccacc ctgctggaga agctggccac 180
catgctggag acgctgcgcg agcggcaggg gggcctgact cagatgcagg gcgggctggc 240
gggctccgtg cgccgcatcc agagcaacct gggcgcgctg agacgcagcc acgataccac 300
agttttcacg ctggcgacgc tgctggccaa ggcgagagcg gtgggctcgc acgcggatgc 360

cgaccagaac gcgcgtgcg ccgcgcgccc agagcagagc tggagacacc acgactgtgg 420
 tgcgcgcggt agtccacgtc tgccttaaga gaagctgaat cccaccagcc ttcanaagcg 480
 cggaccctag cccgggaact ggccaactgc cgaccgacga aaagtcaaca gagagccggg 540
 agcagccgag cgaggaccgg tgagaagaca actgcagccc tcagccaagg cgcgccacac 600
 agcgtagccc cgctggcgcg agntggccga gacacctggg cagacaacc ccaacgggac 660
 ggacgggcga g 671

<210> 131
 <211> 526
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(526)
 <223> n is a, c, g, or t

<400> 131
 aattggcacg agctcagggc accaacgact cactgatgag gcagatgagg gagctagagg 60
 accgctttgc tagtgaggcc agcggctacc aggacaacat tgcccgcctg gaggaggaga 120
 tccgacacct caaggatgag atggcccgcc acctgcgcga gtaccaggac ctgctcaatg 180
 tgaagatggc gctggcacgt gcagattgcc acctaccgga agctgctgga gggcgaggag 240
 agccggatca acctnnnnna tcagaccttc tctgccctca acttcgagaa acaagccncg 300
 acagaggggg tctgaagtca taccagaaga cgngatgac aagacatgag accggnagg 360
 ngagtccgag tgaggcaaca cagagatgag tgctctaagc agagtttttg ctgcaanacg 420
 gctcacttgt ctactgctct aagcannctc tcttcagcac acccaccatg ttcctcaact 480
 tgactgttcg gaccctttgt cccaggaaag acactcagca gtaccc 526

<210> 132
 <211> 578
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(578)
 <223> n is a, c, g, or t

<400> 132
 atttcgcacg aggggaaggt tttcctggca ggttgatttc gagtcagcat gtcggcttca 60

atgaaggaat gccttcagct tcagctgctg gagatggaaa tgctgttttc tatgtttcct 120
 aaccaaggag aagtaaaact tgaagatgtc aatgccctga cgaacataaa gagatacttg 180
 gacggcataa gggaggcctt gccaccaaaa atcgaatttg tgatcacctc gcagatcgag 240
 gagcccaagg tgaaaatttt cttgcaagta accatgcctc acagctaccc ctatgtagca 300
 ctacagatgt gtgcacggtc tgcagaactt gacagacagc agcagctgct tctcaacaaa 360
 ggctcactt cctacatcgg gactgttgat cccagggagc tctgtgtgtg cgcggcacnc 420
 agagttacag acaacaggcc tcctacttct gacagaagct gtggacgaac atgaacagca 480
 agccatcaga acactctncg atgtgactac gcacatattt cagagacctc gaaagactga 540
 gncggaagtn gacgacgaat tgagaagaag cggatacg 578

<210> 133
 <211> 15
 <212> DNA
 <213> Bovine

<400> 133
 ggtctgcagt tgctc 15

<210> 134
 <211> 281
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(281)
 <223> n is a, c, g, or t

<400> 134
 cgttaactgg gtccccgggc tcagttccgc ccccgcccca cgcgcccaa aggctggagc 60
 ctcatcgctc catgtgtggt atttggggct ctttggggga gatgactggc tttttgtttg 120
 tgggtgatgg gttttaatat tgctcacagg ggtccgggag catttcgttt tgaaaatggt 180
 aatgggtaca ccaattgctg gtttggtattt caccggttgg agagaagatg accagctgtg 240
 tggatatgtc gccgatccga gagaaagaaa ttatnctcct t 281

<210> 135
 <211> 496
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(496)
 <223> n is a, c, g, or t

 <400> 135
 gcacgaggcc agtacacagg tgtcgtgaaa accaccgtta aacctaagcc aaaagggaaa 60
 ggagaagacc cacatcaaca tcgttgtcat tgggcacgta gattcagggg agtctaccac 120
 gactggccat gtgatctaca aatgtggcgg gatcgacaag agaacaattg aaaagttcga 180
 gaaggaggct gccgagatgg gaaagggctc cttcaaatat gcctgggtct tggacaaact 240
 taaagctgan ntcttgctg gtatcaccat tgatatctcg ctgtggaaat ttgagaccag 300
 cgagtactat gntaccatca ttgatgcccc cagacacaga gacttcatca naaacatgat 360
 tacaggcaca tccccagctg actgtgctgt cctggatcgt gtgctgggtg tgggtggattt 420
 gaagcccga tctncagaaa cggcagaccc gngagcatgc ccttttggct ttacacctgg 480
 tgnngaanca ctantg 496

 <210> 136
 <211> 423
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(423)
 <223> n is a, c, g, or t

 <400> 136
 tgttgtggaa accaccgctt aacctaagcc aaaatgggaa aggagaagac ccacattaac 60
 atcgggtgtca ttgggcacgt agattcaggg aaatctacca cgactggcca tctgatctac 120
 aaatgtggcg gggatcgaca agagaacaat gaaaaggctg agaagggagc tgccgagatg 180
 ggaaaggctc tttaaagtgt ggtctgacaa cttaaagttt tgacggggtc acatgattct 240
 cctgggaatt gaacagagta tatgtactat gagccaagaa caaactatca aactgttcgg 300
 cctccagtga tggctgcgat ggtgtggttg gattgagcga tttcaacgca accgactgcc 360
 ttgttactgg ggaaatatgg ggtacaagat cctaccctan caaaaacaat gtgaaacctt 420
 taa 423

<210> 137
 <211> 557
 <212> DNA
 <213> Bovine

<400> 137
 gcgttaaact agggatcccc cggctgagta ttcggcacga gggatccac aagaggctgg 60
 accctagaca tactcttgtt gaataacgca cacatggtgt ataactagca cgcacgtaaa 120
 acatccgttt tacgtagcca caggaggggg aaaccatata gatgaaaaca ctgagtctga 180
 gacgtggaca tcccagaagt gtataaacta aacttacctg agtataggaa gaacctctga 240
 tatccgtgag caagacaagg aaaaagaaga attctgaata tatgggaaag ccagcgctat 300
 agggagagca acaaggacca tgagagccag atatatgatg gggaatagag aggacacacg 360
 aggataacat acacatagag aaagctatca acggggaaaa ataagcgatg agacactcat 420
 ggtggactga acggccggca tagggaggca acgatagtat acgagggaaa cgaacaatat 480
 gacgcaataa acgagtagaa aatgggagct acacagtgtt taggaggagc tatggacaaa 540
 cgggttttaa attccgg 557

<210> 138
 <211> 479
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(479)
 <223> n is a, c, g, or t

<400> 138
 gtctgctatt cggcacgagg gtttaccagc ttagaggtct tggaccaatt gaagaagaca 60
 ctattcttgt catagatcca aataatgctg cagtactcca gtccagtgga aaaaatctgt 120
 tttacttgcc acatggcttg agtatagata aagatggaaa gtattgggtc acagacgtgg 180
 cgcttcatga ggtgggtcaa ctagatgcaa agagtaaaga aggccctctg ctaaccctga 240
 gaaggagcat gcaaccaggc agttttctag aaacacttct gtgcagccca ccgatgtggc 300
 tgnngggacca gacaccggaa ccatctatgt gtcagatgac tactgcaaca gtcgccttgt 360
 gcagagttca ccaagtga aaattcatcac acagtgggga gaagcgtctt agaaaacaan 420
 cctatacaga cccagtcaga gttctcaca cttgccctgt ngcctccctg gccactggg 479

<210> 139
 <211> 425
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(425)
 <223> n is a, c, g, or t

<400> 139
 ttccaatgaa tattcaggac tgatttcctt taggattgac tggttggatc tccttgcaat 60
 ctaggaggta ttacttacat attgtaaaat ttaccctgt aaagtataca attcagtggg 120
 tctttatata ctacagtta tattaataa cactaatctc agaaatttca tcacccccaa 180
 aagaagtcac atacacatta gcagtcactt cccattttca ttctnccat ctccaagcag 240
 ccactatact agtnnnnact atgatttgct tactttggac atttaactat atgaattcta 300
 caatatgggc tttgtgacc attnncttta ctttacaat attgatattg tgcagggcag 360
 gggcatactc attctctctt gttcttagta gatggngaga gagaaagaaa aaaaaaaat 420
 gtaaa 425

<210> 140
 <211> 586
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(586)
 <223> n is a, c, g, or t

<400> 140
 cgctgactat tctcaaccaa ccataaagat attggtaccc tttatctact atttgggtgct 60
 tgggccggta tagtaggaac agctctaagc cttctaattc gcgctgaatt aggccaaccc 120
 ggaactctgc tcggagacga ccaaattctac aacgtagttg taaccgcaca cgcatttgta 180
 ataattctct tcatagtaat accaatcata attggaggat tcggtaactg acttggtccc 240
 ctaatatggg tgctnnnnta tagcattgcc cgaataaata tataagctct gactctccct 300
 cctcattcta ctactctgca tctctatagt gagctgggca ggacagctga cccggtacct 360
 ccttacagca actaacctgc agagctagaa gactaacatt tctcttaact aaagagatct 420
 catttagagc acacttatac acatataaaa agaccgcag gacatacaac cttgtgtgaa 480
 cgatatacgc gacatatact ttctgttta aggctacaag tttaaagaa caaaccttt 540

gacgggagag gactttttaaa cttttgtttg cccgagtttt atttcg 586

<210> 141
 <211> 542
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(542)
 <223> n is a, c, g, or t

<400> 141
 gcacgagggg gatctacact cgagtcaaga actacgttga ctggataagg aagacaatgc 60
 aggagtatag tgccccagct gtagactaac catacaggtc ccaccagcct ctctaagggc 120
 tgtgaccctt ctggactttc tcttcctcac aatagttcca ttatttcacc atgactgaga 180
 gaggacacgg gagtgagatt gagctagtgc caggacttgg atgtcgggac actggggttg 240
 aggtagggtg tntntcctgt ggctgtgttg gtctttcagt atagatggac taactacatg 300
 gggctcctct ccccgagtcc atcctgtgga cttcagtgtg caagggaac cctctctttc 360
 tctattcatg ggtggnnnag ggtcctcttc tggatgaccc actcctgtta cagatctgac 420
 tctgaaattt gctgtggggc attctcttga tttnttggg ttnccttta ccgttgaagt 480
 tgaccacacg ttctgctact actgtaataa gcatgttata acccaaaaaa naaaaaactg 540
 ga 542

<210> 142
 <211> 529
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(529)
 <223> n is a, c, g, or t

<400> 142
 gcacgaggtg aaaccttaaa tcccacaaca tttattataa aggtgctgta aagggaacg 60
 ctgggcttca tgacgggctt atcggttaga tttctggtag cgggcacggg caccaggacc 120
 tccaaacttc ttggattcgc agcgacgggg atcggtacc agcagggtcc ggtcactatg 180
 gatgaggatg tctttgatct ccttcttggg agcctcatcc acatatttgt ggtaataggc 240
 caccaaggct nattagatgg actggcggtg ggcgtaaatc tgggcgacga gaccaccacc 300
 cttcactcgg acgcggatgt ccacaccagc aaatcgctcc ttgccnaga gcagaacagg 360

tnccagtagc ttgtatgcag cgtgcgcggt tcgatcattc tcagggtcgt gcgttcacct	420
gatgaggncg ntacctcggt tgcagtgcgc caggctgtgg ccgnccttctt acgnccgaga	480
cttgacacgac tgcagaggcc ctttggacgc atggctcagg cgcagaacg	529

<210> 143
 <211> 466
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(466)
 <223> n is a, c, g, or t

<400> 143	
ccggggacga gggcctgacc cactnacaaa cgtgtgctag actacccgag ggaccottga	60
aagccaaagc tcgggtccccg gtagcgtcga aggctacgaa tcttgtccgc accaacgccg	120
acctgagggg ggaggggctg cagccaggaa gacagagcgg aaagaacaaa ggagggcgag	180
gaaaacaggc gaagcacaaa gaaaaaaaca ataaaccagc gcagtcggag gaggcacacg	240
tgtggatggg atgagctctt ctatgagaag gacagcgccg gtgcagccag acctgaatgc	300
gaggaggagg aagagacaga agtgggagag gagcaggagt aggcggcaga ttggacctag	360
cacagctaca gagaatgatg gctgggggga gaagaggctg gatagagcgc gggtagatat	420
gacacaaaaa gatgacgaga acgcgctgag aacacgggag cagaga	466

<210> 144
 <211> 537
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(537)
 <223> n is a, c, g, or t

<400> 144	
ccgttaaact agggatcccc gggctgcagg cagagacggg cgccgtccca tctcggcctc	60
tgggtaactt ctgcttgact gaccgaccgt gaccctgaca tagcgtcata ttcatggcag	120
ccaagggagg cactgtcaaa gccgcttcag gcttcaacgc tgccgaagat gccagacccc	180
tgaggaaggc catgaaaggg cttggcacag atgaagatgc catcatcaac gtcctgacct	240
atgcagcac ggcccagcgc caggaaatcc ggacagccta cagtntttcc atcggcaggg	300

acctgatgga cgacttgaag tcagaactga gtgcaaactt cgagcagatg atcctggaga 360
 tgatgacacc ccacgagctg tacgatgtgc aggagctgcg taaggncatg aaggncagctg 420
 gcacagatga aggctgctga ttgagatcct ggctcngac accgagaaga acggcgcata 480
 acagacctac actgcatatg cgnagctgaa aagaatcgct gaccgcatca tgtcacg 537

<210> 145
 <211> 528
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(528)
 <223> n is a, c, g, or t

<400> 145
 ccggggctat atttattggc gccttctctc aactgacatc gtcacagcta aagaagtagt 60
 cttgtctgaa aagccactga tttctgagga gacagatctt attgagccaa ctctactgga 120
 tgagctaata tgccacattg gttctttggc ctcatgttac cataagccgc ccaatgcttt 180
 tgtggaagga agtcatggaa tccatcgcaa acacttgcca atacatcatg ggagcactga 240
 tgcaggagac agccttntng gcaccaccac tgccaccaac ctgaagcagc ctcaaggttat 300
 tccctccagg tgacctttgn gggatcttta aacctgacn ntgtcccagg catgtgcaca 360
 gtatcttcat gcaatggagc agggatctct ggagangcta aaggcgnggg aagcctctcc 420
 acatcaggcg cacctgtcct cctatctgcy gcagaaggcg agaacgtgac ttccggaagc 480
 agcacgggaa gggtcagtgt gcgctgaaag taaacggaat aaaatata 528

<210> 146
 <211> 545
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(545)
 <223> n is a, c, g, or t

<400> 146
 tcaggacaga aatgtacaag ctcatgggtc gtattcataa ataggagatt tcgggaagat 60
 gagactggat tataaacagg atcagtcaga agctgaagat ctttaaggata tgcagtggaa 120
 ggcaaacatc tcttcattcc acaacagaaa actatgacga tcagaaactt taagtgaaaa 180
 aaaaaaaca acgttgtaag aggaacacat ctttcagata accaaacaat gtaaaatact 240

gcagggtttt gaccgttntc tggagtgtaa gaaggtggac tcaatttcag tgtcactcta 300
 attcgcattg tggatcagaa tcttgagacc aaaaaaagg aaatccaatc atagcacana 360
 gcttggtggn ttattgaata acatttanat aatcataatg gaaantgctg ttatggnntt 420
 catctttttt agagaatgct attacggtac agantgnagt gncatattat cacctgatgc 480
 gnannnaggc atacaggag atgcaggncg gcgctggnaa gnaggngngc tttaagnngn 540
 agcgn 545

<210> 147

<211> 579

<212> DNA

<213> Bovine

<220>

<221> misc_feature

<222> (1)..(579)

<223> n is a, c, g, or t

<400> 147

cgtggctaca gcttcaccac cacggccgag cgggaaatcg tccgtgacat caaggagaag 60
 ctctgctacg tggccctgga cttcgagcag gagatggcca ccgcggcctc cagctcctcc 120
 ctggagaaga gctacgagct tcctgacggg caggtcatca ccatcgga tgaagcgttc 180
 cgctgccttg aggctctctt ccagccttcc ttctgggca tggaatcctg cggcattcac 240
 gaaactacct tcantttttc atgaagtgtg acgtcgacat ccgcaaggac ctctacgcca 300
 acacggagct gtccggcggg accaccatgt accccggcat cgcggacagg atgcagaaag 360
 agatcactgc cctggcacc agcacatgaa gatcaagatc atcgcgcccc ctgagcgcag 420
 tactnctgtt ggatggncgc tccatcctgg ctgctgcca ccttcacaga gnggatcaca 480
 gcagagacga gagccgccct cctcggcacg caagctctag cgacgtagcg cgtacccttt 540
 ctgcaaacta ctgcaaacg aagaaatgag tctttgttt 579

<210> 148
 <211> 523
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(523)
 <223> n is a, c, g, or t

<400> 148
 gcacgaggca ggaatggggc ccttaccaag gaaaagtcgg tgaagcatat ggacttgtgc 60
 ctgaccgtgg tggaccgggc acctggctcc ctcataaagc tgcagggctg ccgggagAAC 120
 gacagcaggc agaaatggga gcagatcgag ggcaattcca agctgcggca tgtgggcagc 180
 aacctgtgcc tggacagccg cgcagccaag acgggCGGCC tgagcgtgga ggtgtgcggc 240
 ccggcgcttn nttagcagtG gaagttctcg ctcaacctgc agccgtaggg gagcctcccG 300
 cgtctgcccG cgcccgGCCA ccagcgcagc agcacgtcat caagtctgtt tcttaatact 360
 tncgagAAC tatatactc agtattcatc atgtctgcag gtcggagact agcgcggnga 420
 gggcgcacca gagcggagga gaggagctnt gcgccctctc gcctgcgctg gcgnccacac 480
 cctggagcac ggnccgagnn ngacggaaga agggcctgcc agg 523

<210> 149
 <211> 577
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(577)
 <223> n is a, c, g, or t

<400> 149
 gtgctgcatg aattcggctc gagggctgcc ggtgcttgcc tgctgcctgc ctgcctgccA 60
 ctgtgggttc ccagcaccat gagggcctgg atcttctttc tcctttgcct ggccgggagg 120
 gccttggcag ccctcaaca ggaagccttg cctgatgaga cagaagtgga ggaagAAC 180
 gaggcgagg tggccgaggt acccgtggga gccAACCCG accaggtgga agcaggagaa 240
 ttcgatgatg gtgccgagga aaccttctag gaggtggagg ccgagaaccc ctgccagAAC 300
 caccactgca aacacggcaa ggagagagaa ctggacgaga acaacacccg ctgtgtgaga 360
 gccagcacc caccagctgc cctgcccgca tcggcgagtt gagaaagagt gcagcaacga 420
 caaacagacc ttcgactctt gctgcccact tcttgacca gnggacactg gaggcaccag 480

aagggcacaa ctgcactgac tacacgggcc ctgcaaacat gccccctgct ggactcgagc 540
 tgacgattcc ctgcgcagcg gactggctag tacgact 577

<210> 150
 <211> 556
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(556)
 <223> n is a, c, g, or t

<400> 150
 gcacgaggct tcaaggccct cattgccgct cagtacagcg gggctcaggt ccgcgtgctc 60
 tccgcaccac cccacttcca ttttggccaa accaaccgca cccccgaatt tctccgtata 120
 tttcctgctg gcaagggttc agcctttgag ggtgacgatg gattctgtgt gttcgagagc 180
 aatgccattg cctactatgt gagcaacgag cagttgcgga gaagcactcc cgaggcagca 240
 gcacaggtnn ntcagagggt gagctatgct gatagcgaca tagtgccacc ggccagcggg 300
 ggggggtgttg cctaccttta gcatcatgca ccacaacaaa gcagccacag aagatgcaga 360
 gcaggaggtg aggcgaaatc tgnngctgct ggatgctcac ttgaagacga gacttntctg 420
 ggtggcgaac gcgtgnacgc tgctgaatca cagatgtctg cacctgtgtt ggtttacaac 480
 agntctggag cctctttcgc cagnccctcc tatacccacg ctggtcttac tgcatatcan 540
 ccccatcggn ctgttg 556

<210> 151
 <211> 35
 <212> DNA
 <213> Bovine

<400> 151
 aatgaccccg gctgataatc gttgagggga gctga 35

<210> 152
 <211> 512
 <212> DNA
 <213> Bovine

<400> 152
 gcacgagggg attttgcaga catgattcat atttccttct taaagtgtat ttctttctgc 60
 tcgcagttaa acagagaagg agggctctggc gtggcctctc tgagattgtt aatgatgtaa 120
 attgagtcce tgggtttttt acttccgtct cgtgtcacat gaccggcgtg cgcattggagt 180

agaaggatga tgctgagaag tcaaggaact gagcacgagg acgaacagag gccgcgtcag 240
gcgccctttcc accaaccac cctctcccct cagtttggtt gttagtctca cccagtctcc 300
ttgagaagat ggaggaggc tgacacaaca gcgcgacact accctgtgcc ccgcccgacc 360
atcacgagcc tacgtcctca agagcgggtgc cgcgctgtgc gtggagagtc aaacagtata 420
tgtgtatgaa acatgtacac atcaagttat gatataagat ctcaacttct aatttaattt 480
taaaactgat gttgtctagg ggggtttgtc tt 512

<210> 153
<211> 437
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(437)
<223> n is a, c, g, or t

<400> 153
ctcgtgtgga ctttatcttg agggcagaga agaaagtaat ttaagtgtgg aagatagaat 60
tgattatggt ggaattctga caccgtagct ctatggtaca tcaagctccc ttcatatgaa 120
ccttcaagtt gagagctttg taagatgctg atgtgtgttc acgtgtccgg tcacataagt 180
tagttcacgt gtctggcgta cttctcaagg tagtgtactg taagattaaa agatgttgta 240
ttttttgtgt ttgtntaag gtattatttg gtgaaaagga ttgggaatcc tactacacta 300
caatactata cagttgattg ttagatgggt acctaggcta actnntgtgg acttatgaac 360
aaattggatt tatgaacatg ctcttaaatg gaactcattc atatgaaggn gacttactgt 420
tatagtagat ggggagg 437

<210> 154
<211> 509
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(509)
<223> n is a, c, g, or t

<400> 154
tggtgagtg ttgtgagatt taaaaagcaa aacagaccac tgctggctgg ttggtgccga 60
ggtgaatcac ccaaaagctc ccatgccaca gagcgaagcc gagaccacga aacctgggtt 120

cgaggcccag tgggaagggg tgcattggcct cactcctcac tgctgctcac ttctccagg 180
gcagcatctc ccctgngttt gcacccatgg gactcatctt ttgggagggg ttttgtggtt 240
gtnttgttgt accttttttt aaggagcaga gaggccagtg atcaccccg agccgggctg 300
ggtagcaggt gacctgacat gcgnngatgt gccctcaaga gcctggngcc ttcaccgctt 360
tgtgcttggg ctgngtgtgc ctgctccct ctggggcggn ggccgctgca gacctgccc 420
agggccagn ncgggagcca cactgatca taccaggctg ncagccacgg acgctcgctt 480
ggtctgctca cttccctggc tggannagt 509

<210> 155
<211> 512
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(512)
<223> n is a, c, g, or t

<400> 155
ttatttcggc acgaggatca ttgatgcccc aggacacaga gacttcatca aaaacatgat 60
tacaggcaca tcccaggctg actgtgctgt cctgatcggt gctgctggtg ttggtgaatt 120
tgaagccggt atctccaaga acgggcagac ccgtgagcat gcccttttgg cttacaccct 180
gngtgtgaaa caactaattg ttggcgtaa caaatggat tccactgagc caccctatag 240
ccagaagaga tacgnttnaa tggttaggga agtcagcacc tatattaaga aaattggcta 300
caaaccgac acagtagcat ttgtgccaat ttctggctgg aatgatngac acatgctaga 360
accagtgcta tatgcatgt tcagggatgg aagtcacccg tagggacgca tgccagggaa 420
ccacctgcnt gagctctgat gcattctcac cactcgccac tgacaacctg cgtgctctca 480
gagctataat ggggatgtac gcctgggncg gg 512

<210> 156
<211> 257
<212> DNA
<213> Bovine

<400> 156
tggtattcgg cagcaggtaa gtgtaatcgg cagaaacaac agcaacatct ttgacctgaa 60
ccggaatttc ccggaccagt tcgttcagat cacagagccc acccaaccag aaactatggc 120
tgagatgagc tggatgaaga cctatccatt tgtgctggca gcaaacctgg atggagggac 180

tttggagggt aactaccctt gtgagatgat gaacaaggca gtgccacata taggaaatga 240
ccagatgatg ctgttct 257

<210> 157
<211> 490
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(490)
<223> n is a, c, g, or t

<400> 157
ggagatgaac cgatagattt caaaatcaac accgatgaga ttatgacctc actcaaatca 60
gtcaatggac aaatagaaag cctcattagt cctgatgggt cccgtaaaaa ccctgcacgg 120
aactgcaggg acctgaaatt ctgccatcct gaactccaga gtggagaata ttgngttgat 180
cctaaccaag gttgcaaatt ggatgctatt aaagtctact gtaacatgga aactgnggaa 240
acgtgcataa gnntnagtcc tttgactatc ccacagaaga actggtggac agattctggt 300
gctgagaaga acatgtttgg tttggagaaa tcatgaggtg gntttcagtt nagctatggg 360
catctgaact tccgaagacg tctcgatgtc agctggcatc ctncgacttt ctncagccgg 420
ctctcaaaca tcaatatcac tgcagaatac atgctactgg atcatgcagg gnaatgtaag 480
aagctgaagt 490

<210> 158
<211> 366
<212> DNA
<213> Bovine

<400> 158
gcttataaag ccataaacat aggatacaag aagctgaagt tgcggcgggt aggtaagaaa 60
aaatgaaagg agaagaacag gacggacacg ggcaggagga aaggaccagg gggaagggcg 120
ggagaggggg acagaggaag gagggcggag gggggggggc ctggaggaga ggaggaggga 180
gagagggaga gaaaaagaga gacgaagaga aaaacagagg aaggcagaga ggagacagag 240
agggacgcga agataggaga agcaaaggct aagtggctag aagaatggaa gcaaacaag 300
agacacacga caagaaaacc acaccgcacg ctactaaaaa gaatggaaaa aaagaagaca 360
aattgt 366

<210> 159
 <211> 293
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(293)
 <223> n is a, c, g, or t

<400> 159
 tcggaccggt gtcggaacct gaccggacaa gaagacggag catcggtgag atgtgtacac 60
 ggcgtcactg gcatgggtgc cgtggcatgt gtcaccatat gagcaccacg cctggatggc 120
 accgctgggc accgcggctt ggcacaccac aagggccctc gccgctgaga tggacganag 180
 gaggtggagt agcagagacg tatacagcag ggcggaacaa gcagggacag tatgataggg 240
 agtacatcac tgtgttgaca ttgcatcatg ggatactcat catgatgctg cca 293

<210> 160
 <211> 491
 <212> DNA
 <213> Bovine

<400> 160
 cgggcgcccg cctggcccgg gcagtgcgcg gggcgctggc gctggccctg gtgctggccc 60
 tgctggtcgg actgttcctg agcggcctga ccggcgcgat cccgaccccg aggggccaac 120
 ggggacgggg gatgccggtt ccgcccgcct accgctgtcg ctgctgatc ctggaccccg 180
 agacgggcca gctgcgcctg gaggatgggc gccaccctga cgccggagcc tgaggccaac 240
 cttacgaacg ttccacgcga gagcgggagg gcctttgtgg agctgcacac gaacggggcg 300
 ttgaatgaca gactgcaggc ctacgccgca ggcgagaagg aggctgctga gtgcggagag 360
 ctgatctaca tgtactggat gaacacgatg gagaattact gcggaccctt cgagtatgaa 420
 ggggtatact gtgagatgct caagaacttg ctagagggca acctgtagt gatgcagaaa 480
 gatattggagc t 491

<210> 161
 <211> 599
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(599)
 <223> n is a, c, g, or t

<400> 161
 ctggtccccc aggtcctccc agcggcggct acgacttgag ctctctgccc cagccacctc 60
 aagagaaggc tcacgatggt ggccgctact accgggctga tgatgccaat gtggtccgtg 120
 accgtgacct cgaggtggac accaccctca agagcctgtg ccagcagatc gagaacatcc 180
 ggagccctga aggcagccgc aagaaccccg cccgcacctg ccgtgacctc aagatgtgcc 240
 actctgactg ntntagcgga gaatactgga ttgaccccaa ccaaggctgc aacctggatg 300
 ccattaaggt cttctgcaac atggaaaccg gagagacctg tgtatacccc actcagccca 360
 gcgtgacca gaagaactgg tatatcagca agaaccacag gaatagagca cgtctggtag 420
 gcgagagcat gaccggcgat tncattcgag tatggcggca gggtnccgatc tgnccgatggg 480
 ncatccactg actttctgcy cctgagtnca cgaggccncc anaacatcac tacatgcaga 540
 acagnngnct aactgaccac aatggcactc agaagcctgt nctcaggctc anggataga 599

<210> 162
 <211> 543
 <212> DNA
 <213> Bovine

<400> 162
 gcacgaggtc tccacgtacg gtcagttcta cgggtggtgac agctacatca ttctgtacaa 60
 ctaccgccac ggcgggccgtc agggacagat catctacaac tggcagggcg ccagtcac 120
 ccaggatgag gacgctgcct cggccatcct gaccgctcag ctggacgagg gaggctggga 180
 ggggactccc gagcagagcc gagagggcca aggcaaggag cccggtcacc tcatgagcct 240
 gagttctcgg aaacccatga tcatgtacag gggcggcacc tgccgcgagg gagggcagac 300
 ggcgcgcgc cagcaccggc ctggtccagg gccggggccag cagctctgga gccaccgcag 360
 ccgtggagggt gatggccaag gctgcgcgct gattccaacg atgcctttga cctgagaccc 420
 ctcggcgcct actgtggtgg gtgcggagca gcgagcagaa agatgtgcct ggactgtcag 480
 tggctcggcc aaccggcggt gcagaggcag agccaagctt tggagcctgt gggaggccct 540
 ccg 543

<210> 163
 <211> 289
 <212> DNA
 <213> Bovine

<400> 163
 cattacatat tgtgactgct actgtttataa tgatccacga tcactacgag cacgaatggt 60
 acgacgctgt tacacgatga aagtgggtgg gcagtggcat ggataatggc gtcacacgaa 120
 gtaataataa tagcagaaac tggcataaaa gaaatcaatg gcacacacac aacggcggaa 180
 ggacaactgc caagacagaa ccgcaaagt agctacattg gctgctgtag tgtggaagga 240
 ggagggagcg aggaaagga gagggcgagg cgtgcatgga cgagtgggg 289

<210> 164
 <211> 449
 <212> DNA
 <213> Bovine

<400> 164
 ttttcgttta gagttgttta tgctttatat gcaactctct tatgattgca caaatcctaa 60
 ctaaaattct agatagataa agcttcgtgg ggctaggtaa gaaattatgc caagctggag 120
 aacagccagg cccgggagaa aggaacgacc agccgttagg ccggaaggag acagaggacg 180
 aggccgaagg gggacaagct aggaagacca gaagaaagac agacagggac aaaaaaaga 240
 aagccaacaa aaaaacacat gaaaaaaggc aggtgacaaa gaacgacgcg attatttgag 300
 aatcaaaggc tactattggt tttaacacta aaagtaaaaa acgacgtagc ggcgataaga 360
 aaacacccgg caagcttcta aaaaaagagt gggaagaaaa aagcaaagtg caagaaacgg 420
 aaatcaaaag ctaaataaaa ggccactcc 449

<210> 165
 <211> 358
 <212> DNA
 <213> Bovine

<400> 165
 ctcaggggag gcgtctaaac taggtcccg cgcagcctct ggctgggtcc ctacacgacc 60
 ttcccctagc atctccagac catccattga gcgtcgtaca tgacgacact aaggacacct 120
 tgaagcaaca ggaaagagaa cagaggggga aagaagagag ggaaccaata gaagtgggga 180
 aaggaggagg aaggaccaag ggaacggcag gacaaaggac gaagttctag aaaggaaaac 240
 ggaaaaagag aagaaaagga gaccaagaaa aaagaagaaa ggcaataaac aagtaaaaga 300

accacgatgg ggaggaaggg gagaaacgca cacatagcgg caggcgggac cggggaaa 358

<210> 166
 <211> 472
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(472)
 <223> n is a, c, g, or t

<400> 166
 cggctctgggg ctggtgttcc agcgccacat accttagcac cagatggaca gctccacagc 60
 ccagagtctc ctctgtggcc tgagctacac ctctgccggc tccctcagcc gccacctctt 120
 gatcggccac aaggtgagag accaggagga ggaagaggca gaggcggcag agccagagga 180
 ggggctgggg gaggaggtgc ccatggggac caaggagAAC ggactggaag aaagtgccga 240
 ggtctccagt gtgaggcgac tccgagacga agagatctct gagcctggcc caggatgagg 300
 atggagcacg agatgtctct aaacgaccac agacctgtca ggaccgggac agccacacac 360
 cgagacccgc agtgtgacca gaggccctgc aaggcatggg gcgggtggac gcgggncgac 420
 gcngcgtgc tgtggggaca agggaaanaa cagcccacca gggngagtgg cg 472

<210> 167
 <211> 352
 <212> DNA
 <213> Bovine

<400> 167
 ggtctgcatg cggttttttt tgtggttttt ctggcgtcag acgttatatg ttagtggtgt 60
 gggactttac tagttctaga ctgatatacg atcctgtatg gtgtgCGGTg tgctttaaaa 120
 tgaacacaca aaagacataa tggagaagag gaaaagagga ggaaaggaga gaagaacgaa 180
 aaagagggag cggagtggag aggaagggag ggggaggaag aaagaaaaag gggagggag 240
 agagaagggg aggtctgggg aggagaaagg gagaaggagg aaggagaga ggagaagaga 300
 agagtgagat aaaaaggaca gacaagagaa cagaagagaa cagaaggaga ga 352

<210> 168
 <211> 421
 <212> DNA
 <213> Bovine

<400> 168
 gcacgaggct gttttatatt cgccattcc agtccatttt aattctctga ttcctaatat 60
 gttgatgttc actcttgcca tctcctgttt gaccactttc aatttgcctt gattcatgga 120
 cctaacattc caggttcctg tgcaatattg ctctttttat catcaaactt tacttctatc 180
 actaattaca tccataactg ggtggtgttt tttgctttgt tttcattctc ttcttctttt 240
 tggagtatth ttccactgat cttcattaac atatggggca cctaccgacc tgggggggtg 300
 atcttttcat gtctttcttt ttgcttttta ttctgttatg gggtttcaag caagatatga 360
 agagtttgct ttccttttcc gggacacgtt tgtcagatca cacagactgc cgctgggggtt 420
 g 421

<210> 169
 <211> 250
 <212> DNA
 <213> Bovine

<400> 169
 gcacgagggg ttcttatact ttctgagggg gtttaatgac cactagagct tgtcctcata 60
 tttttttcag cttaatactg tatgtctcgt aagatggggc ttattgcctg tattctttga 120
 tatgtgatta agcctatagc tttcagtgac caaacatttt acagagtaaa aaatgttagg 180
 aagcagaaaa agaaaatctg atttattcta tgtctcattt atccagccct gcacttagat 240
 agaagtgtgc 250

<210> 170
 <211> 512
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(512)
 <223> n is a, c, g, or t

<400> 170
 ttttgacaga gaacattttt ctacatata ctttcagagt caaagctgtg gatgggggag 60
 atccccccag atctgcaaca gccacggtct ctctctttgt gatggatgag aatgacaatg 120
 ctcccactgt cacccttccc agaaatattt cctacacttt actgccacct tcgagtaacg 180

tcaggacagt agtagctacg gggttggcaa cagacagtga tgatggcatc aatgcagacc	240
ttaactacag cnatggggga gggaattcct tcaagctgtt tgagattgat tcaccagtgg	300
gngggttttc ttaaaggaaa ctcacccaaa gcattatggc ttgcacaggn tgggtgtgcca	360
gngatgacag gggcagcttc ccatctacac gatctgtgct gtgttgtcat gaaaggttct	420
aagcactgga tgactcccaa agcaaaactg ccnccccatc accagaatat acgggaccag	480
ctataattac acaaaataat gtttgggggg gg	512

<210> 171
 <211> 323
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(323)
 <223> n is a, c, g, or t

<400> 171	
gcacgagggc ctttgacgt tccggccgcg cgcgccgcgc ctgcgcgcta tgcctcgcaa	60
aattgaggaa atcaaggact ttctgctcac agcccgcgcg aaggacgcca agtccgtcaa	120
gatcaagaaa aataaggata atgtgaagtt taaagttcga tgcagcagat acctttacac	180
cttggtcatc acagacaaag agaaggcaga gaagctgaag cagtccttgc cccccggttn	240
gnnncgtgaa ggagctgaaa tgaaccacgc atgctgcttt gaactgtatt aaatttttta	300
aattctcaaa aaaaaaaaaa aaa	323

<210> 172
 <211> 519
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(519)
 <223> n is a, c, g, or t

<400> 172	
gcacgaggcc agaatacag tcacctgcag ccgggggacc acctgactga catcacctta	60
aaggtggcag gtaggatcca tgccaaaaga gcttctggag gaaagctcat cttctatgac	120
cttcgaggag aggggggtcaa gntgcaagtc atggccaatt ccacgaatta caaatctgaa	180
gaagaattta ttcgtattaa caacaaactg cgccgnngag acataattgg agtcccaggc	240
antccctgga aaaccaanaa ggncgagcnt agcgtcatcc cctatgaaat cacactgctg	300

tctccttgcc tgcacatggt acctcatctt cactttcgcc tcaaagacaa ggaacaccgt 360
atcgtcagag atacttggac ttgattctga tgacttgtga gcagaagttt atctccgctc 420
tnataatcac gttttatnaa gttcttgntg aatgggnatt ctaaaatgta actccatgag 480
aacatcatcc aggggnagctg tgctagcttt acactacaa 519

<210> 173
<211> 516
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(516)
<223> n is a, c, g, or t

<400> 173
gcacgagggt ttaattagt tacaaggagg cttcaagagg gcttctgtgg tgaccccggtg 60
gtaaagcatc tgcctaccag tgcaggagac tccagttcag tctggtctgg gaagatgcca 120
cacacccggg ggaaactgag cccatgtacc acaactgctg agcctgtggt ctagaatccg 180
gggagctggc acgagaagtc acagcaatga gaagcccaca cactactana gagtagccac 240
actcaccaca caaggcttnc cttgtgctca gttgttagga atctgcctgc atggcggaga 300
cctgggtcga ttcttggtcg gaagatccct ggagaaggaa agctacctgc cggagccaca 360
cggaagaccc acctgacagt ctgtgaagaa ctgagagcag ggataaacta ggatccttga 420
ttgtcaactc tatcaaacia actcttctgt tttgtttgct tcacacttct gcgtgcaagc 480
tttccgcccc ttttnaaata aataatttat tatatt 516

<210> 174
<211> 434
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(434)
<223> n is a, c, g, or t

<400> 174
gctgcaggaa ttcggcacga ggctagtttc ttgttttttt tttttttttt tttttttttt 60
ttttgccttt tcttccactt tatttcatat tcccaccaca ataatgactc ctttaattta 120
aactaaaaac catanagggt tccctgaaat tgtggcagca aaggaatgaa agtgtcaaat 180

accgagggac aggtggggtg gggaatcacc gaatcgtctc actgggctct tgaagttgct	240
ggcggctgaa gctgcagctg gtagggcatt gatggtatct gaaaccgaaa gcctgggcca	300
acctggtggc ggccccttgg ccggtactgg ggtgcacatg aaaacattga aggacccgcg	360
ccgcagaagc gcctccgggg gggggcctgt tgattggggg tacaccctc ccctgggaaa	420
aaatttccat ggct	434

<210> 175
 <211> 709
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(709)
 <223> n is a, c, g, or t

<400> 175	
caaatgtct tgaaatgata ttaccataat ttttaagtagg aaagttacct gaacacttct	60
gcttccactt aactgactgg cccgcaatat tgtaggaaca gcatgtcctt tgtactgtgg	120
tattcagaac agccacagca ctcaactttt ccaaatgatt ctagtaattg cctagaaata	180
tctttttctt acctgttatt tattaatttt tccccatatt tttatatgga aaaaaaatt	240
gtattgaaga tacttagtat gcagttgata agaggaatct gttctaatta tgtttggtgg	300
attattttta tactgtatgt gccaaagctt tactactgtg gaaagacaac tgtttaataa	360
agaattactt cccaaaaaaa aaaaaaaaaa aaaaaataa ccggaggggg gcccggtccc	420
catcgtccta tgggagcggt accatccacg ggcggcgctt acagcncgga cgggaaccg	480
ccgtccccac ctacgcctgc acccaccccc ttcccggtggg taaaggaaaa ccccaccacg	540
cctccacgtg cgcaccgagg cgaggaaaga agggtaattt gtaatcgtaa tttttatata	600
tttttacatg ccaagccatc cttaaaaaaa aaagaagggg ggggtgtgta aaaactctta	660
aagccccga gaaaaaccta gggccccccc cccctcttt gggggcgac	709

<210> 176
 <211> 570
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(570)
 <223> n is a, c, g, or t

<400> 176
 taattcggca cgaggctcat ttttccatct cttatgagga cacacatcac tgaatttagg 60
 ttctacccta agtccagaat aatctcatct tgagatcctg aaacttatca catttgcaaa 120
 attcaagagc cagggaaagc tgagcagtga ctgctaattg aacagggttt gcttcgaggg 180
 tgatgagagt gttcaggggt agacagggat gctgtttgta cgactcagtg aatatactaa 240
 aaccnaggg attgcatgct ttaaagaaga agcttaatgt ttgtgaaatt agtctcaata 300
 tagctgttat ttttaaaaga gcctggctcg gggagccatc aatcatactg ctatTTTTAT 360
 atcgatgtgc cagcagaagt attcttaaatt ctttatgaca ctgttttact tttggctgtc 420
 tcccacctgg tttaaatata ttgaacagaa cccagngaaa gcctatggta cagggagagc 480
 cccgctttgc catgagggat agaattggtg atgccagaga ttccaagaat ttgtgaaaaa 540
 ccagactccg gggccgggta accttctccg 570

<210> 177
 <211> 384
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(384)
 <223> n is a, c, g, or t

<400> 177
 gcacgaggag agaactagtc tcgagttttt tttttttttt tttaactgaa ggaaaatttc 60
 tttacaatgc tgtgttggtt tctgtcatac caacgtgaat caatcataat tatattatat 120
 atcctgatgg cacatgttaa gaatgcattt tctcgtttga acattactga gttgggagat 180
 atgcaggtta tggattagtc tctcttgtga ctactgactt aactaaaatt cagaagatac 240
 agccatttac ctacagtcct ccagttaaaa catggcagac ctgagcctan aaccagttt 300
 gctcattttc actccagtat caccctaacta tacctaaaat gttccctctg cagatactat 360
 tcaaagcact ttatttattt ctat 384

<210> 178
 <211> 248
 <212> DNA
 <213> Bovine

<400> 178
 ctgcagaatt gacacgagca ccctctcaag accgagctgc tgcggccaca ctcctacagt 60
 ctgtgcaagc ccccgagtgc acccccaagt ctggagggaa gaaccatgtc tgtgaccagc 120
 aactgcaaag agccaatgcc tgtgtggttg acagccggcg tggagatctc atagctactc 180
 ttgccactgc ccgacagctc cctggctcaa aaattaccct catctacttg ataaggatga 240
 tgtacacc 248

<210> 179
 <211> 719
 <212> DNA
 <213> Bovine

<400> 179
 tgatgccttc taattatggt tccccggg gc tgcgtggtgag acctgtgtat accccacttt 60
 gccctgtgtg gttccagaag aactggtata tcagtaagaa cccaaggaa aagatggctc 120
 gtctggtacg gagagagcat gaccgtcgga tttcagttcg agtatggcg ccaggggtcc 180
 gatcctgccg atgtggccat ccagctgact ttctcgcc tgatgttcac cgaggggtctt 240
 ccataacatc accctaccac tgcaagaaca agagtggcct acatgggacc aactgactgg 300
 caaccctcaa gatgcctgc tctccagg gc ctccaacgaa gtacgaaatc cgggcccagg 360
 acaacagccg ctccactaca gcgacaccta aaatggctgc acgatcacac cggaccctgg 420
 gcaagaagag acgaatacaa acaccaaact ccgctgccca catgatggcc ccttgaagtg 480
 gcgcccatac agaattcggt cgagtggccg cctgtttctga actccttccc caccgctcct 540
 caccaaccct gcccgactcg aaaacaacac caacgaaccc aaaacaaaag gaaaatcaca 600
 gctgaaaatt ttctgctttc ttaatattta ttacacaaac tacaacaaag aactcaaaa 660
 aaaaacagga cgccccccct aggcataata tcggttacgg aggaccgcc ctcctccc 719

<210> 180
 <211> 68
 <212> DNA
 <213> Bovine

<400> 180
 atgaagcggt atatatttgtt aaattccgtt atatatttgtt aatcacctca ttttttacc 60
 ataagcgc 68

<210> 181
 <211> 680
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(680)
 <223> n is a, c, g, or t

<400> 181
 ctgcgccct ctacactatg gatccccggg ctgcaggcgg aagatggcgg ccacggcggt 60
 gaacggggtg gccggcacct cgagctcggg gtctgcggcg gcctcgggcg cgatcctgca 120
 ggccgcggcc ggcatgtacg agcagctcaa gggcgagtgg aaccggaaaa gccctaattct 180
 tatcaagtgc ggnggaagag ctggggccgtc tcaagctggt tttgttgag ctcaacttcc 240
 tgccaacnnc acaggaccca aatgaccaag cagcagctca ttctggcccg tgacatactg 300
 gagatccggg ctcatctggag tatectacgc aaggacatcc cctcctcgag cgggacatgg 360
 cccagctcaa gtgctactac ttcgattaca aggagcagct cccagagtca gcctacatgc 420
 accactcctg ggcctcacct cctcttctgc tgtcccaaac cgntggctga ttccaccaga 480
 ctggacggtg cctgccaaga catccaacca cggtaacaaa gcatcgggnc ctcgagcata 540
 cgaggaggca gtacatagta ttctggcaag cacatccgc gaactacctt ctcatgattc 600
 gctgaactca gaagaagttg tgangaaggc atgaaatctt tacaagcccg accccctcac 660
 aaccaaaaaa aaaaaccaaa 680

<210> 182
 <211> 553
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(553)
 <223> n is a, c, g, or t

<400> 182
 gctctatact atggatcccc gggctgcagg ttgcgttagg cgcagacggg caaacagagc 60
 cagcatgccg gtcgcccgga gctgggtttg tcgcaaaacc tatgtgacct cgcggagacc 120
 cttcgagaag tccgcctcg accaagagct gaagctgatc ggcgagtatg ggctccggga 180
 caaacgtgag gtctggaggg tcaaattcac cctggccaag atccgaaagg ctgnccggga 240
 gctgctgacg ctggatgaga aagaccgcg cgtctgttcg aagtaatgcc ctgtgcggcg 300

gctcgtccgt atcgggtgct ggatgaggca agatgaagct ggatacatcc tgggctgaag 360
atgaagattt tttgagagac gcctgcagac cagtcttcag ctgggctgcc cagccatcac 420
cagccccggc tctccgcacg cacacaggtc gcagcaggga gacatccgtc tcatggcgct 480
ggactccaaa ccatcactct cctcctcccc tcgcggggcg nccggccggg aagaanaagc 540
aaagacaggg ggt 553

<210> 183
<211> 488
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(488)
<223> n is a, c, g, or t

<400> 183
gcacgaggag tgaccagggg tagctgggat gccctcagac tgcaactggac cagccccgat 60
gggatctatg aacggtttgt cattaagatc cgggagactg accagcccca agaagttcac 120
agtctcacgg ttcctggcag ccagcactcc gtggagatnt ccagcctcaa ggctgggtacc 180
tcttacacaa tcaccctgcg tggcgaggtc agggaccaca gcactcaacc ctttgcctgtg 240
gaggtcatca cagcggagct cccccagctg ggagacttat tcgngactga ggctggctgg 300
gatggcctca nactcaactg gaccgcagct gatcaggccc ttgagcactt tgtcattcag 360
gcgcaggagg ccacaggggtg gnaggcgctc aaactcccgg ggcccaggac atgcggctgg 420
gacatccggg ccctgagcgc ncccctacag agcacatcca cggatgatcgg gctatagacc 480
aggtcttt 488

<210> 184
<211> 574
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(574)
<223> n is a, c, g, or t

<400> 184
aaatatgat ccccgggctg cagnaattcg gcacgagggt accatctatt ttttcaaacc 60
tggcaggaat ccccgggggg aagcccgcac actccttcca cgttaccgca gatggtcaga 120
tgcagcccgt ccccttcccc ccagatgccc tcatcggccc tggcatcccc cgacacgctc 180

gccagatcaa caccctgagc catggagagg tgggtgtgtgc ggtgaccatc agcaacccca 240
 cgcgacacgt gtacacgggt gggaagggct gcgtcaaggt ctgggacatc agccaccccg 300
 gcaacaagag cccgtctctc agctcgattg tctgaacagg gataaactac atccgttctg 360
 caaattgctc cctgatggct gcactctcat agtgagaggg gaagctagta ccctgtccat 420
 ctgggacctg cggctccac ccgcgcacatc agcagactga cgctcggcc ccgtgctcg 480
 ccctgccatc agccggactc aagtctgctc tcggctgcag cgaggcacat gctggtggga 540
 ctgcacacca acgcgtgagg catncaggca ccga 574

<210> 185
 <211> 275
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(275)
 <223> n is a, c, g, or t

<400> 185
 aaatatggat cccccggctg cagnaattcg gcacgaggca ggcctttttt ttctctctca 60
 gacaaccatc tcatggaccc cattccagga aagctctgag tatatcattt catgtcatcc 120
 agttggcatt gatgaagaac cttacagtt ccgagttcct ggaacctctg ctagtgccac 180
 cttgacgggc ctcaccagaa gggccaccta caacatcata tggnaagcag taaaaaaca 240
 ancagagcag aaagttcgcg aggaggggggt tnccg 275

<210> 186
 <211> 214
 <212> DNA
 <213> Bovine

<400> 186
 cttccgttat actaaggatc ccggccgcgg aattcggcac gagcctcagt tttttttttc 60
 agcctcaggc ccaccctgag ggttctctc caagctggca tcgccccact ttacagatga 120
 ccaccccagg cttggacagg gccgcccctg gacaagaagc tgatcaaggc cctctttgac 180
 gtgctggcgc acccccagaa ctacttcaag taca 214

<210> 187
 <211> 237
 <212> DNA
 <213> Bovine

<400> 187
 cctgcagaat tcgcacgagg agaatctatt ttttctcttg atgaggggtga aagaggaaag 60
 tgaataagct ggcttaagac tcaacattca aaaaactaac atcgtggcat ctgggtcccat 120
 cacttcatgg caaatagata aggaaaaagt agaacgggggt caggcttaat tttttttggc 180
 tccaaaatca ctgcagatgg gggttgcagc catgaaatta gagatgcttg cttcttg 237

<210> 188
 <211> 611
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(611)
 <223> n is a, c, g, or t

<400> 188
 aattgcacg aggtggaagc ttttttgtcg ggggttgtga ctggggggccg gagtgcccca 60
 cccgattggt ggggtcccctt ccgcatttag ggtccctgag catgctttct tgccaggag 120
 ctggaaagtt ttctgaccct tttccccaga aagagagaca atagattgcc ttcattttga 180
 tgtctgtggc ctcaaaattg atcatttctt gtctctctcc tccctccccg ccctggggcc 240
 ccccgcccat tcatccccac ccctccagag ccacttanga ccacttctg actaattatg 300
 gattccagat gcttgggata aaagaaaaag gaccaagaac ccctccccct ctctgacctg 360
 gccaaagccc tcccccaatc ccaggtctc tggagggctc tgcttaagcc cgctcaccg 420
 anagnaggna tgtagctgta gaaacaacca tgcaaactgg gtggcctgca gtttacacca 480
 cccaatcttc cctcctgggt ccttacatga tgaggacaac tggctgagaa gggcgcaagc 540
 gtctggctca ctgctattct gaaatagaac tggctcttgc tggcgtggcc tgggtagggc 600
 cggcagaggg g 611

<210> 189
 <211> 640
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(640)
 <223> n is a, c, g, or t

 <400> 189
 gtgcgttaaa taggatcccg gctgagaatg ccgaggaaaa ggccagggtta aaagggcccg 60
 gcccggccgg gtgaagaagc aggaggccaa gaaggtggtc aaccccctgc tcgagaagag 120
 gcccaagaat tttggcattg gacaggacat ccaaccaag agggacctca cccgctttgt 180
 caaatggccc cgctacatcc ggctgcagcg gcaaagggct attctttata agcgcttgga 240
 agtgcctcct gcaattaacc agttcacgca ggccctggac cgaccaacag ctactcaact 300
 gcttaagctg gccccaagaa cagaccacag acaacaaga gaaaaagcag agctgctggc 360
 cgaactgaga aaaaagcgcg ggcaaaggcg agtccttacc agagcccact gtccttcgag 420
 caggtncaca cggccacacc tggggaagac agaagctcag tgttgatgac gtcagagtgg 480
 tcccttggtt ggggtctctg ctgcctgggc gcagaggggn ttctatgcta taaggcaggc 540
 ggctggcgcg tgccagagac ggccacgact taccatcacg ggaaagagct gttaggggaa 600
 ccagacatta aacaaaaaga acgggtgggg gaggcgggca 640

<210> 190
 <211> 602
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(602)
 <223> n is a, c, g, or t

 <400> 190
 cgccgccgct taaactatgg atccccgggc tgcagnaatt cggcacgagg attacaagcg 60
 gatagaaggg ctaaaaatca aaggcgaaga gttcatatga ctctggagtt accatggagt 120
 gctgatagag caattcagca atttgacga actcatagat caaatcaagt taccgctcct 180
 gaatatgtct ttctgatttt ctgattggca gaagaacaaa gatttgcatc tattgttggt 240
 aaaagacttg agagtttggg cgcacctaca catggagaca gaagagcaac aaaaactaga 300
 aaaccgagcc gcgtccacct tcgataataa gatggaagaa aagctttaa aattgtgatg 360

aaatccaatg tgaaaccaaa ttcttccttg gttcaccact ccagactatc ctggagattc 420
 ttttaagagtt cgcaagactg atagagtgtc ttataaagtg aaaaagtcag aatcttcttt 480
 tataaaattht aaaacaaagn aaatttttaac aatttgggcg ggaggggcca caaagccttt 540
 ttttttcgca cccctcctgc ggctcaaagc aaaaaagaaa aacataggaa ttaatgttgt 600
 tg 602

<210> 191
 <211> 148
 <212> DNA
 <213> Bovine

<400> 191
 gggctgcagc tccatggggt gttgggtgct gccagccacg gaggccgggc ggccagaacg 60
 cgcacagagg gatatgatat ggtccggtgt gatggagaga gcaagcggga ccgtgcagcc 120
 tcccaggaca ctggccccgc ggggagcc 148

<210> 192
 <211> 665
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(665)
 <223> n is a, c, g, or t

<400> 192
 gtggcgccct ctaaaactatg gatccccggg ctgcaggtgg actacaccat cactgtctat 60
 gctgtcaccg gccgggggac agccccggcaa gcagcaagcc cgtttccatc aattaccgaa 120
 cagaaattga caaaccatcc cagatgcaag tgactgatgt ccaagacaac agcattagt 180
 tcaggtggct gccttcaagt tcccctgtta ctggttacag agtgaccact gctcctaaaa 240
 atggcccagg accatcgaaa acgaaaactg taggtccaga tcaaacagaa atgacaattg 300
 aagggctgca gccacagtg gagtatgtgg tcagtgtcta tgctcagaat caaaacggag 360
 agagtcagcc tctggttcag acaagcggtta cccaccattht ctgcaccaac caactgaaat 420
 tnactcagtg acaccaccag ctgactgcca ggacgcaccn atgtcactca ctggttcgag 480
 gcggngaccc gagaaagacg nacgagaaga atcacctgct ctgaactatc gggttggtcag 540
 actagttgca ccaatgagga ggcttgcttht agacctgaca caacgctagg aggtcaattg 600
 aaagcactca aaggccggga aagttgaaca ctcttatga acaaatgaaa acgggtcagt 660

gctcc

665

<210> 193
<211> 591
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(591)
<223> n is a, c, g, or t

<400> 193
aattcgacg agtgtctatg ctgtcccggc cgggggacag cccggcaagc agcaagcccg 60
tttccatcaa ttaccgaaca gaaattgaca aaccatccca gatgcaagtg actgatgtcc 120
aagacaacag cattagtgtc aggtggctgc cctcaagttc ccctgttact ggttacagag 180
tgaccactgc tcctaataat ggccccagac catcgaaaac gaaaactgta ggtccagatc 240
aaacagaaat gacaantgaa agcttgacgc ccacagtgga gtatgtggtc agtggctatg 300
ctcaaaattc aaaacgagag agtcagcctc tgggtcaaac agcggaaacca ccattcctgc 360
accaccacc tgaattactc agngaaacca acagctgact gccaggnac gcaccattt 420
cactcactgt tcgaggcggg gacccgaaga gagacgnacg agaaaaatca cctgctctga 480
actatcgggt gtatagacta gttgcacaaa ttaggaggct agtctagacc tgaagcaacg 540
ctcagatgta cattgaaaga gcctcaaagc cgggaaagct tgaaccctac a 591

<210> 194
<211> 617
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(617)
<223> n is a, c, g, or t

<400> 194
ctgcagaaat tcggcacgag gagcgagtcc tgttaggtgc gcgtggaaac tagggtcatg 60
gctgcgcccc gtccagcgct ctgccttttc gacgtggacg ggaccctgac ggccccgcgg 120
cagaaaatta ccaaagacat ggattgcttt ctgcaaaaac tgaggcagaa aatcaaaatt 180
gggtgcgtcg gcgggtcgga ctttgagaaa gtacaggagc agctgggaga tgacgttatt 240
aaaaaatatg attacgtgtt tccagaaaat ggcttggtag catacagaga tgggaaactc 300
ttgtgtaaac agaataattt aggtcacctg ggtgaaaccc taatcaagat atattcacta 360

ctgtctgagc tacatcgcg aaaatcagct ccngaaaaaa aggncacttc atagagtccg 420
 taacgtgagc tgacgtgtcg ccgacggaaa agctgcagca gaanaaccat gtatctacga 480
 ctgtacaaaa gaaacataaa caaagtcgga gnattgcaaa gattgctgta aggctacgtt 540
 tctagagnca atcacttatt ctccctagct gaacaatacg ctggaacggg aagaagataa 600
 acttattttt ggacaac 617

<210> 195
 <211> 583
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(583)
 <223> n is a, c, g, or t

<400> 195
 cacgtagggg cgaccgcagg ccctctcccg aggagctgga caagggcatc gaccccgaga 60
 gccccctgtt tcaggccatt ctggacaacc ccgtgggtgca gctgggcctg accaaccgga 120
 agaccttact agcatttgaa gacatgctcg agaaccgct gaacagcacc cagtggatga 180
 acgaccgga gacgggcccc ggcatgctgc agatctcaga atcttccaga ccctgaaccg 240
 cacatatgcc gcgcactgca gctgccagcc cagagagcct cttcttccca gccaggggt 300
 ggggagaggg tgcagacccc aaggtgcgcc tgggctgggg gcggggagca ggggggcntg 360
 gagggaccct gccctgggt gtggcgccag gccgcactcc gctggatctt ctggaaaaac 420
 tcggnngcag ggccgggtgg ctccaccct gacaggttac gacaggcgcc accgggaagg 480
 gggctccttc aggccctggc tctgacgtat tgattaacga gcgcgctgga agacctgttt 540
 gaaaaagaat gtcaaccagt taggaaggat aatgggaaaa aaa 583

<210> 196
 <211> 561
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(561)
 <223> n is a, c, g, or t

<400> 196
 aattgcacg aggtcatccc taagtggcct gaagatggac aaagggaagt aacaggcacg 60

tgatgttggc aaggatgctt ctagggctag aggatcagtg gtgggagaga gctgcagaat	120
ccaccagcca gaactgcaga taacgatata tatggtcagg ggctgtgact gagagaagga	180
aactgaggtt gtgtttctgaa agtacataaa ctctcacata taccagttc ttcaccatct	240
tccctcctca ctttgcagng ccattttttt tttgcattag gcaaattgct cagactttcc	300
agagccatgc ccatcccgtc tctggaaccc ccacacctct gagagtggga tcaccacgtc	360
ctgcagggct gctcccctcc aactaccttt agagagcagg acaggagctg tttcaccaca	420
agacaaaatc aaacgagagc agacgggtaa acaaanaaga caggggcaat gttttcttgn	480
gttttgtttt ttttccattg gaggtgacac aaaaattcaa gctacagttc ccctctcccc	540
cccatTTTTT ttttaacaan a	561

<210> 197
 <211> 641
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(641)
 <223> n is a, c, g, or t

<400> 197	
ctcatcctac catatagata ttggtaccct ttatctacta tttggtgctt gggccggtat	60
agtaggaaca gctctaagcc ttctaattcg cgctgaatta ggccaaccgc gaactctgct	120
cggagacgac caaatctaca acgtagttgt aaccgcacac gcatttgtaa taatcttctt	180
catagtaata ccaatcataa ttggaggatt cggnaactga cttgttcccc taatatttgg	240
tgctcccgat atagcatttc ccgaataaa taaataagct tctgactcct ccctccctca	300
ttctactact cctcgcatcc ttataattga agctgaggca gaaacagctg aaccgngnac	360
ccctccttan ncagcaacct accatgcagg agctnataga actaccattt cttttcactt	420
acangagtcc tcatttttaga gcatcaactc ttacacaata caacataagc cccgcatgcc	480
atacaacctt tgtgttgatc gnatatacgc gactatatat tgctctttta cacgcaccag	540
ctttaaacga actatcactc tcacgcgaga gaactttttt acattttgtt ttggcccgcag	600
ctttttttct gggggattct ttgcccctca aaaaaacagt a	641

<210> 198
 <211> 183
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(183)
 <223> n is a, c, g, or t

<400> 198
 tactatggat ccccgggctg caggagttt tttttttttt tttttgtac aaatcaagca 60
 ttttattaca taaataaaag cagcacgctt ttattttcta tttaaatacc atacacgaga 120
 tttaaataca catttggcag tggactgcag gatgctcaga cttcaccac atcacnttgg 180
 att 183

<210> 199
 <211> 779
 <212> DNA
 <213> Bovine

<400> 199
 ggcgccctct aaatatggat ccccgggctg caggaattcg gcacgaggcc ggaccggtgt 60
 ccttctctgg aggtctctcg ctggtcgtgg gggagccggg agggcatggc tggctgcccg 120
 aaagagactg cgagacggtg acctgctgtc tcttttcgga gcgggacgcc gccggagctc 180
 cccgagaagc cggcgaacct ctggtcgggg cggccctaga gccagaggcg gtgggcgggg 240
 gcgcgaagcc cgctcgcggg tgctgctgct gtagcaggaa ctcaagatgg tcacgatctc 300
 gctgctgaag cggctcaagg aacgctcgtt ggccacgctg ctggaggggg gagaccgctg 360
 gggggggccg ggcggctgcg ggctgtgccc gccgccgacc tcccctggcg gccaccccg 420
 cgcgcaactg tgctcggaacc cctccctggc ccacctcagc cgccggggcc cagccctggc 480
 ggggtccact cccccccccc gagggcccag ggccgcaccc caccctcacc gctcggggcc 540
 aaataaccgcc cgcctacctg tttccccgga caacaacacg attattatcc cttgctaattg 600
 aaaaacgccc cttttcatcc ggaatcaacc actgccgccc ccaccacctg gcggggctgt 660
 acggcggggg gctccctccc cccccccatt tctctctttt ttttcgtctc attacatttg 720
 ggggctatat atataatata ttattataga tattatTTTT ttttctatct atattttta 779

<210> 200
 <211> 596
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(596)
 <223> n is a, c, g, or t

<400> 200
 gggctgcaga attcgcacga ggctgtctgc tcgtggtgga gatggcagta ggatcatttt 60
 tgatgatttt cgagaagcgt actattggct tcgtcacaat actccagagg atgcgaagggt 120
 catgtcatgg tgggattatg gctaccagat tacagctatg gcgaatcgga cgattttagt 180
 ggataataac acgtggaata ataccatata atctcgagta gggcaggcca tggcatccac 240
 agaagaaaaa gcctatgaga tcatgaagga gcttgatgtc agctatgtgc tggtcatttt 300
 tggnagcctc actgggattc ttcaaatac atcaacaaat ttctgtggat gggccggatt 360
 ggaaggagca cagatacagg aaacacatac aggacacgat attatactcc actggngatt 420
 cgngtggacc cggaggctcc cangtgctc actgctttag acaaaagggt actacgattg 480
 acaggntacc aaaaccacgg ccctagcttt accggccgga tgcgagatgg aataaactcg 540
 actgagtcta aaaacaacac accacatgct ggccaattca aggagaccgn aatcag 596

<210> 201
 <211> 561
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(561)
 <223> n is a, c, g, or t

<400> 201
 naattcggca cgagggcatg aatgtcctgg ccgatgctct caagagtatc aacaatgccg 60
 aaaagagagg caaacgccag gtccttatta ggccgtgctc caaagtcata gtcaggtttc 120
 taacagtgat gatgaagcat gantacattg acgaatntga aatcattgat gantcacaga 180
 gctggaaaat tggnggaac ctcaacnagca gggctaataa gtgtggagng atcagcccta 240
 gattgatgtg caactcaaag atctagaaaa tggcagaata cctgctccat ccgcagttg 300
 gtttcatgta ctgacaactc agctgcatca tggacatgaa gagcaagacg aaacatacag 360
 aggaaatctt gattcttttt aggagtatac tacaataatg ctcaagactt gtgcttctta 420

aaaaaaaaa aaaaacgacc gcactgatga cagatctaca tattctgacc tttttatctc 480
 actaaagtca accacttttc catcaacgaa cacaaaataa aaaaaaccct gaaaaaaaaa 540
 aatttttttt ttttcttttt t 561

<210> 202
 <211> 342
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(342)
 <223> n is a, c, g, or t

<400> 202
 tttttttttt ttcctttctc gctcccttcc tttcttcctt acttacttct ttgcttttgg 60
 ctgcattttc tttaaattcg acacagttat gttaaaaaat atatgcattg tacttagagt 120
 ttggtgtaat ttaaaatatg tggagtgatt tcattcactc tcctgtttta aacatttggt 180
 aaggactcag catgtgaagg agcaagagat atagtcattt ttattagaaa acttcagtgt 240
 tctaatttca tcagagaccg ngaataatca gaagatgaca tgatttactt ggaatataca 300
 gcttatcaag gacttcgtta tttatgatgg ttatttaaaa tc 342

<210> 203
 <211> 518
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(518)
 <223> n is a, c, g, or t

<400> 203
 cgcagccact cgcaccggtg ccgcctcgtc ctgcttcgcc atgacttcct acagctatcg 60
 ccagtcgctg tccacctcgt ccttcggggg tatgggcggc ggctccatgc gcttcggggc 120
 tgggaagcgc cttccgcgcg cccagcatcc atggnggctc aagtggccgc ggcgtgtcgg 180
 tgtcctccgc ccgcttcgtg tcctcgctct ccgggggcta cggcggcggc tatggggcgc 240
 cctggccacc ttcgacgggc tgctggcggg caacgagaaa ctcaccatgc aaaacctcac 300
 gaccgcctgg cctcctaccc tgagaagtgc gcgccctgga gagccaacag cgattggagt 360
 gaaaatcgcg actggaccaa aacaaggccg gcccgccgcg actacaccta ctcaaacata 420
 agactgcgna ccaactcgtg gcacatgaaa ctcataatct gcatacacag ccgtcgtcgc 480

aagactcgca cattgagacg acagctggca gagggagc

518

<210> 204
<211> 557
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(557)
<223> n is a, c, g, or t

<400> 204
naattcggca cgaggagcag atcctggctg ccctcgagaa aggctgcagc ttcttgccgg 60
accagtaccg caagcagtgt gaccagtttg tgacggagta tgagccagtg ctgatagaaa 120
tcctggtgga ggggatggac ccttccttcg tgtgcttgaa gattggagcc tgcccagcaa 180
cccacaagcc gcttttggga gctgagaaat gtgtctgggg ccgacctta ctggtgccag 240
aacatggagt cgcagccctg tgcaccgctg cgagcactgc agcgtcacgn gtgaaactag 300
ggcacgcttc accctgaaaa actgcagcgt cttttctgct cggttgtctg gggtaaccac 360
accaattgtg actttgtata aaaaagaccc ttctcatcc ttnttctccc tcttgtgcgt 420
gcttgcaggc agtgactgct gtttcgtcct ttttgtaaaa agcgaacctc ctgagttttg 480
attgtggcgg ggtaggggaa agggttgtcg gaggaacgac ctgcgcaggc cgccccgctg 540
ttgggggggc ctgcgct 557

<210> 205
<211> 557
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(557)
<223> n is a, c, g, or t

<400> 205
gggctgcagg ttaattcatt tttctgaaa aagagaagat gtttatttat ttatTTTTcc 60
atggtaaatt cttttgaatc tgctcttaa acctaactct gggctctctc aggaggggca 120
aagaggacct ttgagttaaa cctccaatg gagaccctgg gaaagaaccg gaggcataac 180
accnagccg cctccaact ggactgtang actccccaga cccgctgcc agctgcttct 240
gcccatcgnt ctgcctgggtt gggttntggg tctgggatcc caccgagcc ctgtaggatg 300

gcaccacaag ccctacatga agagctttgt ggtgtcacta aaatgtgtgt ttcggcacgt 360
tgctgtcatt ctgcctgnct gccatgctga aaagctggca cagcccgana agccagcgaa 420
aacaccttct gccagantct tgnccctctc gagatgagac caccagctgc tgtcctccca 480
gaacaggtat tatatttaag taaaactgtt actaaaaagt ttgttccaac ttattcaaaa 540
caagagaaaa ggggcgt 557

<210> 206
<211> 593
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(593)
<223> n is a, c, g, or t

<400> 206
ggggccctct aaactatgga tccccgggct gcagnaattc ggcacgaggc ggacctgctg 60
gagctcctgg cactcctgga cctcaggtat tgctggacag cgtggtgtgg tcggcctgcc 120
tggtcagaga ggagaaagag gcttccctgg tcttctggc ccctctggtg aaccggcaa 180
ancaggtcct tctggagcaa gtggtgaacg tggccccct ggtcccatgg gccccctgg 240
attggctgga cccccggcg agtctggacg tgagggagct cctggtgctg aangatcccc 300
tggaacgagat ggttctctgg cgccaaggnt gacgnngtga gaccgnccct gctgactcct 360
gtgctcctgc gctcccgggc ccccgncct gtcgactgcc gcagacgnng acgggtgaga 420
cggcctgctg tctgctgtcc catgccggtt gtgccgggccc cgtgnacca gccccggga 480
caggtgaaag cgacagggac gagcataagt cacngctct tgtctcagtc cccgcctccg 540
cttctggagc agtcttcgac ttgtctgtgg ccgcgccccg tttgttctc gca 593

<210> 207
<211> 462
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(462)
<223> n is a, c, g, or t

<400> 207
cacgaggacg gacctgctgg agctcctggc actcctggac ctcaaggtat tgctggacag 60
cgtggtgtgg tcggcctgcc tggtcagaga ggagaaagag gcttccctgg tcttctggc 120

ccctctggtg aaccggcaa acaaggtcct tctggagcaa gtggtgaacg tggccccct 180
 ggtcccatgg nccccctgn attgtctgga cccctggcg agtctggacg tgagggagct 240
 nctggtgctg aaggatcccc tggacganat tgttctcctg gcgcaaaggt gaccgtggtg 300
 agaaccggcc ctgctgacct tctgtgctcc tgcgctcccg tgcccccgnc cntgtcgact 360
 gccgcagacg tgatcgtggt gaaacaggct gctgtctgct gtccatgncc ngtgtgceng 420
 gnccccctgna cccagaccg gtgacagga aaagcaacaa cg 462

<210> 208
 <211> 652
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(652)
 <223> n is a, c, g, or t

<400> 208
 cggcgtccct ctanactatg gatccccggg ctgcagtgggt tctgcagctc tgtggcaagc 60
 cgcgagagtct gggttctgat ccgcaggatg gggtttgta aagttgtcaa gaacaaggcc 120
 tacttcaaga gataccaagt gaaattcaga agaaggcgag agggcaaac tgactactat 180
 gctcggaac gattggtaat ccaagataaa aataagtaca acacaccta atacagaatg 240
 attgttcgtg taacgaacag agatatcatt tgtcagattg cttatgccg tatagaagga 300
 gatatgatag gttgtgcagc ttatgctcac gaactccaa atatggngtg aaggntggcc 360
 tgacaattat gctgcgcata ttgtactggc ctgctgctgc cccgcagctt ctttataggt 420
 tggatggaca aaattatgaa gcnagacgag gngatggaga gatacatgng naagcatcga 480
 gccaaactggg cctcactgta ctgnagcaga ctgcaaactc tacgagttaa gtttggccct 540
 aggacgcgag agctgctttc tacagacacg tcctgttgat caaagcaa at cagcgagccc 600
 gaagcatagg caaagtgaat acgcccctgt ggaaaaaatc caaaactttt ca 652

<210> 209
 <211> 627
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(627)
 <223> n is a, c, g, or t

<400> 209
 cggcgcctct ctacaactat ggatccccgg gctgcagnaa ttcggcacga ggcaggacaa 60
 tcaagtgtgg cagctgggct catcgtcccc aaacttcact ctggagggac atgagaaagg 120
 tgtgaattgc attgattact acagggatgg tgacaagcca tacctcatct ctagagcaga 180
 tgaccgtctt gtgaaaatat ggactatcag aataaacttg tgtacagaca ctggagagga 240
 catgccccaa atgtgtcttg tgcccagttc atcctgagct gccattttta tcacaanttc 300
 aaaaaatgaa actggcgctt tggcattcaa gcaccttcgc cttgagagga cttgattatg 360
 aatggagaag agatgggggg gccgcccga ggtccataac gtgttttggc tttgagaaag 420
 aagcatatgt taacttgctg gagaactgct tgtctgggtg caaggaaaat aatgggccaa 480
 catcaaaatc accagccact aaacaaggag agtgaatta aagaaaagat gcctgcataa 540
 aaatgcagtt gaattactca atatcacaat ctaagcgcgg tggggggggg ggggaaattt 600
 ttccgcagcc cgaaacaatg tgggccg 627

<210> 210
 <211> 581
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(581)
 <223> n is a, c, g, or t

<400> 210
 gcacgaggct tgcctgctgc ctgcctgcct gccactgagg gttcccagca ccatgagggc 60
 ctggatcttc tttctccttt gcctggccgg gagggccttg gcagcccctc aacagcaagc 120
 cttgcctgat gagacagaag tgggtggaaga aaccgtggcc gaggtggccg aggtaccctg 180
 gggagccaac cccgtcccag gggaaataag aagaatcgat gatggtgccg aggaaaccga 240
 ggggagagtg gggancgaga acccccgcga aaccaccact gcaacacggc aggnngtgtga 300
 actgaacgag aacacacccc atggtgttgg ccagacccca ccaactgcct gccntcgcg 360

aagttgagag tgtgcacaac gacaacagac ttcgatccct gccatTTTTg cacnaggnac 420
atgnaggcac caaaaggccc aactcactgn ctactcggcc tgaatacatc ccctgctgca 480
tcgactgatg atcctggctg cgacgctaaa cgccgncact gacaaggaag cacactcgac 540
gaaaatatgg atgaaaaacc aaataaagcc gggggggcct c 581

<210> 211
<211> 522
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(522)
<223> n is a, c, g, or t

<400> 211
ttatactcca aggcttgga aaatcacata atcaagattg aattgtttca gaaatatgg 60
caggattctt ggactgtgtc tactacagaa tgaactgtgt cctatcacat tgaatagaca 120
tgtgattaaa gtgttgcttg gtaggaaagt caattggcac gattttgctt ttttgaccc 180
tgtgatgtac gagaagttgc gggcacttat tcttgcttct canagttcag atgctgatgc 240
tgttttctca gcaatggatt tggcatttgc aattgacctg tgtaagaga agaggggaga 300
cagntgaact atttntctatg tgtaatatatac cagtcactct caaatgttat gagtatgtgc 360
ggaatatgct gacataaatg tnngtagtgc agacaccata ctgcatgaga agtctctgnt 420
gtgcttcaaa atcatatana ttacacagaa attagctttg ttagctggng agntacggcg 480
agcgtcagtc actcttctga gatagaaaag tgaacttgcg tc 522

<210> 212
<211> 306
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(306)
<223> n is a, c, g, or t

<400> 212
gggcgccctt aaataggatc cccggcctca ggggtggcaag aggccgtgct attttttttt 60
ttgtagaagt ttgtcgctga tggcatcttc aaagctgaac tgaacgagtt tctcactcgg 120
gagctggctg aagatgggta ctctggagtt gaggtccgag ttacaccaac caggacagaa 180
atcattatct tggncacca gacacagaat gtacttggtg agaagggccg gcggatccgg 240

gaattgactg ctgtggttca gaagagattt ggcttcctg aagcagtgt aagcttatgc 300
tgaaaa 306

<210> 213
<211> 487
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(487)
<223> n is a, c, g, or t

<400> 213
naattcggca cgaggctagt ctcgagtttt tttttttttt tttttctttg gaaaacaaaa 60
catgctttat ttcatttttt tcacaattta tttaaactc tcacatatac aaaataggta 120
caatttaatt tttctgcttg tccgagaaac aagacttctt tggaaccatg gnagaggatg 180
aaaatgagac tggcaaagaa caaatgctga anttaaagaa gagacaantg tgggcaaagt 240
atccacttac ttttgtggaa taagatgtaa agtactgatg ttaaagtcaa atgaaaaaaaa 300
tacacaatac agctcaacag cagaggagta tctcttctca aattctccta gcaccatcaa 360
cattcttnca gtatctgaaa tactgttaat tagcaccttc gtattttgaa cnaaaaaaca 420
caaatacctc agctcatctc tggtcagcac tcacggtgtg gtatcacact cacaggaaan 480
gttttga 487

<210> 214
<211> 369
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(369)
<223> n is a, c, g, or t

<400> 214
naattcggca cgaggatcat atagtaaacc caagcccttg acctcttaca ggagctttgt 60
ctgccctctt aataacatcc ggcctaacca tgtgatttca ctttaactca atgaccctgc 120
taataattgg cctaacaaca aatatactaa caatatacca atgatgacga gatgttatcc 180
gagaaagcac ctttccaggg gcacataccc cagctgtcca aaaaagcctc cgttatgaat 240
attcttttta ttatctccaa gtactattct ttaccgattt ttttgagctt ttaccactca 300

gcctcgcccc acccctgacc tagcgctgct gacccccaca cgcattcacc cactaacccc 360
tacaagtcc 369

<210> 215
<211> 479
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(479)
<223> n is a, c, g, or t

<400> 215
tgagagcagc agccaaaaac cacgctcgag tgacagtagt atgtgagccg gaggactatg 60
cagctgtagc ctgagagatg caggattctg acagcaaaga cacgtccttg gagacaagac 120
gccagttagc cttgaaggct ttactcata cagcacagta tgatgaagca atttcagatt 180
acttcaggaa agagtacagt aaaggagtat ctgagatgcc cctgagtat ggaatgaanc 240
ctcatcagac tctgcccag ctgtatacgc tgaagccaa gctccnttat cacagtctga 300
atggagcccn tgatttataa nctgggtgat gctttgaatg cctgcagctg gtgaaggaa 360
tcaagagct tttagcttnc actgctgctg cttcaaacat gtagccaca ggctgctgtt 420
ggattcactc atgaagagaa accactctgc atgttatgat tgtacaaacc tccaccgca 479

<210> 216
<211> 365
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(365)
<223> n is a, c, g, or t

<400> 216
cctaaattac tcaatagttt taaagtgtta catattcaaa gccttttcca gaccagggag 60
agagttctgt tagagtgaag ggtagtgtct cttgcgcatt ctgtgtgtgt atttctaaat 120
gctactgtgt gtgtttgtgt gtgctccac agtttatatg caaagacttt gagcaacatt 180
tataaaaagt attttctctt agaacaattc aagagattta ttttgtggct accacagnca 240
ctgccagtgg attgtttttt cttctaaatc tgaatattga ccaaaaattt ggtgattttt 300
atgactttgt tgtgttggtg ttttaatttc ttaaaaattt aaactttggt taaaattcag 360
aaatc 365

<210> 217
 <211> 728
 <212> DNA
 <213> Bovine

<400> 217
 gtgcctctcc ctatactatg tatccccgcg ctgcagtata ttttgcattg aggagaacat 60
 gtaatctcta tcttccctta gcaggatcaa acctagggcc ttctgcattg cgagcacaga 120
 agcctatcct ctggaccact tgggggagtc cccgcttttc tttgcatccc aaagaatatt 180
 ataactaacc taaagaaaac cgcattttcc ccttatcggc gcgcttcttt ccttttagtct 240
 aagacaataa tgtcttattg tcctgggggg gacatagtca gtacgggtta agctcctcta 300
 acctttggtg gcattttttg ccccaaatat tgcttttcca aaaaccacag aggctgtttc 360
 ttttattaaa ttccttctgc cgccccccac ttgggggtgg gttggcctct tgggtctttt 420
 ctttaataata aaacaaaacg gtttgactgt gtctcccca ggtacttttt tttctctctt 480
 tcagagtact gtcaaccgga ctccagtttt ctctgggac gtcaaatttt cctactctca 540
 tcgcctctgc tgtggccttt ttccatttca agaaattctc gacctattat tcaactccta 600
 aaaaatatat catgcccccc ccctctactt gcttcgcgac agacacaaca attttcttct 660
 aagcaggcga accacaacag aataggaaga tatctataca gaaggaaaga acgtattcat 720
 ggcgatct 728

<210> 218
 <211> 124
 <212> DNA
 <213> Bovine

<400> 218
 tcagggatcc ccgggctgtc agctgcgtca agtgttgtca tgaatgtttt cctgggcctg 60
 gcggcgacta cagcgggtgt gttctgtcct gtcgcgggct gcggtgactc gctggcggct 120
 cttc 124

<210> 219
<211> 713
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(713)
<223> n is a, c, g, or t

<400> 219
ctctatacta tggatccccc ggctgcagna attcggcacg aggaggtatg tctgaatgtg 60
tttcgactat ttacagcccc ctttcctcgc agggcccat gagtaagctg tggcggcgcg 120
ggagcacctc tggggctatg gagggccctg agcctgggga agccctggag ttgagtctag 180
cgggtgcccc cgggcacgga gtgcacaaga aaaagcaca gaaacacatg aagaaacaca 240
agataaaaca ctaccaggat gaagaggctg ggccaacgca gcagtctcct gccaaagcccc 300
agctcatact caaatcaagt tgggcgggca ggtcttgggc accaagagtg ttctacctt 360
cactgtgatc cctgaggtcc tcgctcacc cttctcccta tgtntgggaa catgaagagt 420
acctgtgaag gagccccctg acataccgag ctgctggaga aacaaaactg cccctcccat 480
gggnactgct gnggntanag ccagagaaga gaatacgagg gctgagcttg naaagggagc 540
gagacagaaa ccaaagaaac agacgctgca cgtgcagagt tgtgaagccg agcactccgg 600
tgccctctgct ggctgcggcc cttacaaaag gggagggggg gcggaagggg gggaggggag 660
ggaaaaaaaa aaacccaag agcggggggg ggggcggggg gggggggggc ccg 713

<210> 220
<211> 583
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(583)
<223> n is a, c, g, or t

<400> 220
naaagacttc atgaaggaga agaaaaggaa aaaaatcaaa ggatgactac agcctctctt 60
catctcagct ttgcaaagca tgactcaaca gagagatcac attcttgaag actctccaga 120
ccacagattg aagataagtt gttgtgctgc actatttctg ttgctactcg tgagagtcac 180
taccagctc tcttctcagg attaatgaat gggccagaaa ccgggggcag aatgactnca 240
ggggcacccc caacaccaga tattggcata aggaaacagt acaatgaaaa aagtcatact 300

tggacccttg tcattccaca nagcatgatg tactatctaa aacaaaaaga agagctgctt	360
tggagaaggg ttttaaaagt tgtttatcaa aanaaagatt anaagaggaa aactccagtn	420
tatnagatgg cattttacttt naaggctctg tccctgtgta ggcatgagat tgatacagna	480
cagacgggct gccaanacagn tactaatgtn tctgctctaa gaagggncct cttgcttctt	540
tgtgatatct tgcagagccg actgaggaca gaaacacaat aag	583

<210> 221
 <211> 582
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(582)
 <223> n is a, c, g, or t

<400> 221	
caattcggca cgagggtgag tgacatcgtc tttaaaccct gcgtggcaat ccctgacgca	60
ccgccgtgat gcccaggga gacagggcga cctggaagtc caactacttc cttaagatca	120
tccaacttct ggatgattat ccaaaatgct tcattgtggg agcagacaac gtgggctcca	180
agcagatgca gcagatccgc atgtccctcc gcgggaaggc tgtggtgctg atgggcaaga	240
acacgatgat gcgcaaggcc atccgagggc atctggaaac aaccgctctt ggagaactgt	300
gcctcacacc gnggaatgtg nngctcggtc accaagagac ctactgagac aggacagctg	360
ctgccacagg gccactgcgc ccggctgtgc atacgccggg agacctggcc accagacatg	420
nctgggccga aagacttctc tcagcttagc acacacgata ctcaggcaca gaacctgaga	480
ggcatgataa aagaacagag cgcagagcac gcgacacgac accccttctt gcgccccaaag	540
gggaaagcag atacccagct aaaaagaccg ctctcggggg gg	582

<210> 222
 <211> 570
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(570)
 <223> n is a, c, g, or t

<400> 222	
gcacgagggt gacatcgctt ttaaaccctg cgtggcaatc cctgacgcac cgccgtgatg	60
cccagggaag acagggcgac ctggaagtcc aactacttcc ttaagatcat ccaacttctg	120

gatgattatc caaaatgctt cattgtggga gcagacaacg tgggctccaa gcagatgcag	180
cagatccgca tgtccctccg cggaaggct gtggtgctga tgggcaagaa cacgatgatg	240
cgcaaggcca tccgaggga tctggaaaac aaccggctc tggagaaact gttgcctcac	300
atccggggga atgttggctt cgtgttcacc aaggagacct cactgagatc agggacatgc	360
tgctggccaa cagtgccagc tgcgccggc tgtgccatac gccggtgaag cctggccagc	420
caaacatgtc tgggcccag agacctctct tcagcttagc acacagaana ttcaggcaca	480
tgaaatctga gaggcacgat agaagaacaa gagcgcacga gcagcgtgac agcgacaccc	540
ctttctcgcg natcacaggt gacagcaatt	570

<210> 223
 <211> 262
 <212> DNA
 <213> Bovine

<400> 223	
gggctaacag tccgcgagcc cggaatccg cagccgggcc cacaggaaca tgcgtctgct	60
tgggggggag agggccgggc tagagcgagc aaggtgaggg gggggggggg ggacctcccg	120
cggatacaag gtcacacacc cctcctaattg cagaaggcga cggttgcagg aagggaacaa	180
taaggactcg caaggtgtct aggggaacga gtaaatgaaa ggccacggcg cgagacgcga	240
gcgaccaccc aggagaaccg cg	262

<210> 224
 <211> 456
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(456)
 <223> n is a, c, g, or t

<400> 224	
naattcggca cgagggtgag ttccattgag ttaaataaat accttttga aaggagtttg	60
ccgatgcacc aaaaaagcct gtctgcgctg taggaatgtg tggatgaagct caatttctgt	120
tttatgaaac ctgtttgggc ggggggtctgg gggttgcaca gagaatgagt tcttgtattt	180
cgcgtcacac aggtagtatt ggaaatatgt tattgtactg tgtaaagatg cccagccatt	240
ttgattgttt ggctttttac ttgtacctt ttcaagcttt tgctatacat ctggaaccct	300
caacacatac tgtgtgtgtac ttctttttgt aatgattttt aatggaagtt tgcacataac	360

tcttggtata ctgtacgata atcttggggg aaaatatattt gcatatcaaa aaaaaaaaaa 420
 aaaaaaaacc gagggggccc gccccattc ccctta 456

<210> 225
 <211> 630
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(630)
 <223> n is a, c, g, or t

<400> 225
 cgggcgccgt taactagggtc cccggctcag cagacacagt gtcgtgaaaa ccaccgttaa 60
 acctaagcca aaatgggaaa ggagaagacc cacatcaaca tcgttgtcat tgggcacgta 120
 gattcaggga agtctaccac gactggccat ctgatctaca aatgtggcgg gatcgacaag 180
 agaacaattg aaaagttcga gaaggaggct gccgagatgg gaaagggctc cttcnaatat 240
 gcctgggtct tggacanact taaagctgaa cgngagcgng gnatcaccat tgatatctcc 300
 ctgtggaaat ttgagaccag caagtactat gntaccatca ttgatgcccc aggacacaga 360
 gacttcatca aaaacatgat tacaggcaca tccccagctg actgtgctgt cctggtcggt 420
 gctgctgggt tggnnngaatt gaagccggat ctccaagacg gcagacccgn gagctgcctt 480
 tttgcttaca cctggnngng aaaacactat tgtgcnnta caaaggatnc actgacacct 540
 atacagagaa tcaanaatgt tagnancaca cttatanaaa tgctcaccgg acanacattg 600
 gccatttgct gaaggacaag ctaacaagct 630

<210> 226
 <211> 575
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(575)
 <223> n is a, c, g, or t

<400> 226
 cgggacacag gtgtcgtgaa aaccaccgtt aaacctaagc caaaatggga aaggagaaga 60
 cccacatcaa catcgttgct attgggcacg tagattcagg gaagtctacc acgactggcc 120
 atctgatcta taaatgtggc gggatcgaca agagaacaat tgaaaagttc gagaaggagg 180

ctgccgagat gggaaaagggc tccttcaa	atgcctgggg tcttggacaa acttaaagct	240
gaacgtgagc gtggtatcac cattgatatc	ntcctgtggn naattgagac cagcagtact	300
atgntaccat cattgatgcc cccagacaca	gagacttcat canaaacatg attacaggca	360
catcccagct gactgtgctg tcctgatcgt	gtgctgtgnt ggnngaattg agccngcatc	420
tccaagacgg cagacccgga gctgcccttt	tggctacacc tgggtgtgaaa acactatgtt	480
ggcgttacaa tggatncact gacaccttan	cagagaatca anaaatgtag aagcagacta	540
ttaaaaatgc tcacccgaca gacttggcca	tttgt	575

<210> 227
 <211> 596
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(596)
 <223> n is a, c, g, or t

<400> 227		
gctctatact atggatcccc gggctgcagc	gtcacttacc tcactcgttc ggagtcgtat	60
atcgggggaa attgctacat tctgtcaggg	tcacgtgatg caacccttct gctctggtac	120
tggaatggaa aaagcagtgg tattggagat	aacccgggca gtgagactgc cactccgcgg	180
gccattctga caggccacga ctacgagatc	acttgtgctg ctgtctgcgc ggagctcggc	240
ctcgtgctaa gtggctccaa agagggacca	tgtctcatac attccatgaa tggagactg	300
nntagggact tgnaggntcc anaaaactgc	ctgaaaccaa anctcattca ngcgtcgaga	360
gaggccattg tgtcattttt atgaaaatgg	gctctctgca catcatgtaa cggaaagctc	420
agccacatgg aacgacatac ataaggcatc	actgacggna tggcagactg ctcacggaga	480
acagggggct cagtctgcgg gtcgactaac	atgtcgctac agtggagcgg atcggctggc	540
tgctaacaag gcgctgtgct cctagacacg	tgttcacatc acgggaccaa caccct	596

<210> 228
 <211> 560
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(560)
 <223> n is a, c, g, or t

<400> 228
 gcacgaggcc tggacccct ggtccccag gtcctcccag cggcggctac gacttgagct 60
 tcctgccccca gccacctcaa gagaaggctc acgatggtgg ccgctactac cgggctgatg 120
 atgccaatgt ggtccgtgac cgtgacctcg aggtggacac caccctcaag agcctgagcc 180
 agcagatcga gaacatccgg agccctgaag gcagccgcaa gaaccccgcc cgcacctgcc 240
 gtgacctcaa gagtgccact ctgactggaa gatgcgagat actggattga ccncaccan 300
 ngctgcacct ggatgccatt aanngtctct gcacatggaa ccggtgagac ctggtatacc 360
 cactcagcca ngtggcccat ataactgtat atcacagaac ccagtaaaaa gcacgtctgt 420
 acgggagact gacggcgatt cagtcgattg cggcagggtc gactgcgagg gcatcatgat 480
 tctggctgag ncacgagctc aaaatactac atgagacagg nctatgacac aatgcactaa 540
 agccgtctca gctcagatga 560

<210> 229
 <211> 291
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(291)
 <223> n is a, c, g, or t

<400> 229
 gtctcaatgt ccgtggcgct gaggcaagcg ttgtggggga gaaggtagc gactgtagct 60
 gccgtttccg tttccaaggt ttcgaccagg tcgttgagca cttccacatg gaggctggca 120
 caggacaaaa ctcgagacac gcaactcata acagttgatg aaaaattgga tattactact 180
 ataactggtg ttccagaaga gcatatcaaa actagaaaag ccagatcttt ggtcctgctc 240
 gncatacatg cagtctgtag ttaacaaaca caagaatgga gatggaggtt g 291

<210> 230
 <211> 625
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(625)
 <223> n is a, c, g, or t

<400> 230
 gcacgagtgg cggatgacgc cgggtgctgcg ggagggcccg gaggccccgg gggccccgga 60
 atgggaggcc gcggtggctt ccgcggaggc ttcggtagtgc gcgcccgggg ccggggtcgc 120
 ggccgggggtc gggggccggg cagaagccgc ggagctcgcg gagggcaagg tcgaggacaa 180
 ggagtggctc cccgttacca agctggggccg cctgggtcaag acatgaagat caagtctttt 240
 gaggagatct acctttctct ctgcctatca agaggctgag atattgactt ttttcttggg 300
 agcatccttg aagatgagtt ttgaagatta tgccgggcaa aaccagaccc gggctgcca 360
 ggaaccagtt caaggcgttg ttgctttcgg ggatacaacg actgggggct ggtggcaggc 420
 ccaagaaaat accctgcctc cggggggccat cttctgctaa gtgtccacgc ccgggcaaga 480
 gcttagggga acanaagaca ccccccgtc tgcagggacg gctgggtccg gcgggccccta 540
 cctcccaaga cggctcctcg cccggccaaa cggagagcgc tgacagtcct tgccggcgct 600
 gccctggcat ccagccttgt ctcca 625

<210> 231
 <211> 641
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(641)
 <223> n is a, c, g, or t

<400> 231
 tttttttatg gcttcttctt tctttattgg acgctttgta gatgtcacgc aggtctaaaa 60
 gttacaccgt taaataatta tttaaaaacc aaccaggatt aaggccctgg ccagagctc 120
 caaaccagaa gcagaaagga atggtggcgg tgggctgggg gggatttcct ccaacatcac 180
 caaaaccag agaacgagga tcctaagctt ttcacaggcc aaccgggca cgggcctgca 240
 ggctgaccct cggaggcctc tggctgcac actatcagat caaaaccagc gaggagctgc 300
 cgggaacagc cagccgagtc cagacatgga cacagtagct ggatggacac gagacggaca 360

ggtcctgtcc agctgtggac aggattcaga tgcaagctag gcagtggggg caggggctgg 420
ggagcagaat gaagcatgca ggagggggccc cggggcctgg ctcanccacc ggccgccgag 480
cctcaccgtg tgggntcgt ggggnctggg ctcccgccca cactggactt gaggctctgn 540
agcgagagtt ccagccattg tgatgttgct ctcacaacaa atncttgcca ctgggagaat 600
tgagatggtg acaaactacg cccaagcatg tggatgccag c 641

<210> 232
<211> 632
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(632)
<223> n is a, c, g, or t

<400> 232
ctctatacta gggatccccg ggctgcagta attcggcacg aggctcgggt tttttttttt 60
ttttttgctc taattaaaaat ttttattgaa atctctcaaa cgttaccaag aaatagtttt 120
tgcaaaaggg agggaaggga aaaaacaaac aacaacaaca aaaaacagct aacaagcaaa 180
ttcaacatgg gagctccctc tgctgggtctg cagtaggttg atatgttaca aacacattcc 240
cagagacaaa tctatttgct ggagaaggga caaaaaacag gtgtgtgggc tttgcctcna 300
gagagaacac tggcatgcag ngagcggggt agtgaaagca gaggagcagc gcagcgctaa 360
gtcgtggta cagaagtacg ggccacactc aggctatgng taaaggcagc ctgtgactct 420
atgtctctgc atgactgaga cagggtggcaa gnaactgggt tggagcctac tattgtcttg 480
ctctcggggt gctacaacct atgtaggttg cgattagacg acgagcctca agatttgcg 540
tttgttgaca tgcaatgcaa ctagctgtat tactttaaaa ctttacctat gtgaaaaata 600
atccgtgatc aaggaaggca aaaaaactct tt 632

<210> 233
<211> 710
<212> DNA
<213> Bovine

<400> 233
ctacggcatc ccccgggctg caggctcagat tttttttttt ttttttttta gttaattact 60
ttattacatt ttagtgcttt cttaaaataa atataataat ataattatca aacatacagt 120
gagaagtaaa gcacacgtgt gaacggcatg tcacaggagt tctactcagga ctgtttcaac 180

actcagcact ggagaaaccg cacaggccta cctatgtaca gacgacccaa ccgccagggc	240
gaggccaccg cgtcccctcc gtctcatgg acacggccac tcccccttgc gttgaaatga	300
ccagtttgca tgttttaact tttctctccg ttgagcttca gttttttttt tttcttttgc	360
agttttgaaa aaattcaagt aacactccca agaaaaaaaa agtgcaaaact aataagggac	420
tcagagtccg gcgccggtca ggggcagcgc acagcggggg ggcagccggc cgagtctgtc	480
ccggaacacg gggcgcagga ccccgcccac tcgaggaggg ggggacggag gccggcctgg	540
gtccaaagcg ccagaccttt gttgaaagca gcacagcccg cgaacgaacg cagtccgcgg	600
ccgacttcgg accaaggaag gagaggggga aaaataaaag tattaggatc cttttataaa	660
atataaaatt ttcaaatttt ataaagggcg cccccggggg ggggggcccc	710

<210> 234

<211> 676

<212> DNA

<213> Bovine

<220>

<221> misc_feature

<222> (1)..(676)

<223> n is a, c, g, or t

<400> 234

ttgacatcct ccatttcgct gtgctgagtt agtacagga agacggggaa gtgaaatgcc	60
aacagtagta gatgggggac ttccctggta gtccagttgt tgagacttcg ccttccagtg	120
ctgggggggtg caggttcagt ccctgatgtg ggagctaaga tccctcatac ctcatggcca	180
aaaaaccaga atgtaaacia cagatacaat attgtaacat attcaataaa gaattaaaaa	240
aaaatttttt tataaaatat acttaaaaaa aaacctgaca gtttcacaga gagggctgtg	300
ataggattgc tcatgaggaa atccaaggaa tagaagtttt tgatagagga tgatgggaag	360
tgtgttagca gaagtaggac tgcctactgt ccatctggac catgnaaagc acanattcat	420
cccgcacagc ttggagagaa tgtctcacta agagctcatg ccttgatttc ctcccacatt	480
atgtgtattg ttggttttat atacgttttt ttgctgatat taccatatta ggtttgtgtg	540
atgattgtag gacattctat gtagagaaag ataaacttaa aaaagaagcc ctttttcttt	600
ttttnttaa ataatgcac ttaagtgagt caccctttcg gcaaaaaaga gaacacttta	660
cttattacta tttctt	676

<210> 235
 <211> 297
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(297)
 <223> n is a, c, g, or t

<400> 235
 ctggtgcttt cggcctcgct gcggtgccga cagtccgttc atgcctcgcg tttgagggca 60
 ggggggtggct cagcggctgg ctgcgagctt tctccgctgg ctgaggcccg ccacagccga 120
 catgggctgt ttctgcgcgg ttccggaaga attctattgc gaagatttgc ttctgaatga 180
 atccaagtta actctacca cccancaaac aggcatcaga aaatcacgaa agggctcatt 240
 gtccttgagc accgtatccg ccaactcaacc ctggggaggt gagtattttt ggcttgc 297

<210> 236
 <211> 639
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(639)
 <223> n is a, c, g, or t

<400> 236
 cggggcgccc tctaaactat ggatccccgg gctgcaggcc cagtttccct ccagaaacat 60
 tcttgggacc agccaccttt cccaggtgt gtgctgccca ctgccacca gaggtgggat 120
 ggcaggttcc aggttccctc ttggatccca ggcttccctt gacatcagca ccattcagtg 180
 gttttctctg ctccatcgct atcgcttcat gctgaatgga caggactgtt gacctgtctc 240
 aagaagccca taagatttga gcagaaacgn tgacttcctt gtacctctgc cagagcagct 300
 cccttctccc cccagaatt tcaccagatc tcttcatgct gctcttnatt tncgtacttg 360
 aagtggntct gccgacaaac agcagacttt gtgtgtccca ctctgacttg caggacggna 420
 gnttctttct cttaagttga tcgcttcttg ctgtgactgn cccgctggng aaaatggttt 480
 tgctcgttt taagtgaaca ggagactaga tgctgtacta aacagatgga accgagagaa 540
 aactacat cagtaaagac caccaccaa cactcataaa cgctaacaaa tctgctgaaa 600
 gatgtagctg gaaaaaaaaa acggggggccg gccacctta 639

<210> 237
 <211> 580
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(580)
 <223> n is a, c, g, or t

<400> 237
 gcggggcgcg tctaaacatg gatccccggg ctgcagggtc ctgtgtcgtc ttggagggtga 60
 ctcggcgtga ttgaatttgc ggcatcttcg cattcactca caggtcaaaa tgcagatctt 120
 cgtgaaaacc ctgaccggca agaccatcac cctggagggtg gagcccagtg acaccatcga 180
 gaacgtgaag gccagaatc cagataagga aggcatcccc cctgaccagc agagggtcat 240
 ctttgccggc aagcagctgg aagatggccg cactctntct gattacaaca tncaaaagag 300
 tcgaccctgc acctggncct ncgtctgagg ggggnatgca naatttcgga aaccnntga 360
 cgcagacatc acctggaagg gagcccanga caccacgana acggaagccn aaatcagata 420
 gaggcattnc cccgacacaa gctcatcttg cgcagcactg gagaggcgcc tctttgatac 480
 acancaaaaag gcgactgccc ggcctcgca gggggagcaa tctcgaaacc gacgcagaca 540
 tactgagggg gcagcacacc aaagaagcaa acaaaaaaga 580

<210> 238
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 238
 gcacgaggcc ttcatccagc accttcccct gagtgcgagc atccggggca ccgtcggacc 60
 aaagagcaag gcagagtgtg agattctaata gatggtgggc ctgcccgtg ctggcaaaac 120
 cacgtgggac atcaaaccatg cagcctccaa cccctccaag aagtacaaca tcctgngtac 180
 caatgccatc atggataaga tgcgggtaat gggcctacgc cgtcagcgaa actacgccgg 240
 ccgctgggac gtctgatcc cagcagccac tcagtgcctc aaccgtctca tccagattgc 300
 tgcccgaag aagcgcaact atatcctana tcagacaaat gtttatgggt cagcccagag 360
 acgaaaaatg agaccatttg aaggctttca gcgcaaagta ttgtatttgt nccnactgat 420

gagactgnaa gacgaacaat aagcgactga cgagaaggaa ggagtcnna acacgcgtct 480
 taaaatgaaa gcacttcacg tgccgatgtg ggacttctgg agagngctgt catgagctgc 540
 aggaaaggag cgac 554

<210> 239
 <211> 261
 <212> DNA
 <213> Bovine

<400> 239
 cacgagggga atcttgcct tccaggtccg ccagtttaag cgcctttatg aacatattaa 60
 aaatgacaag taccttgtgg gccagcgcct cgtgaactat gaacggaaat ccggcaaaca 120
 aggcacatca ccaccacctc cacagtcgtc ccaagaataa agtggttgtc tccactacct 180
 tggccttccc ctgccttca cgtgtccttt tttgtggact tctctctctg gagatttccc 240
 cagtgatctc tcagcgttgt t 261

<210> 240
 <211> 243
 <212> DNA
 <213> Bovine

<400> 240
 ctagtctgag tttttttttt tttttttttt ttttttttct ctgtactact atcactattc 60
 tcaggtgggt ttttgagaat gaatgtgcag agtttatgat gtgtgtcaag catgcctcga 120
 tagccacagg ctttacaaaa attacctatt gtttgcttct ttggattgac atgcaaactc 180
 gtttcatgat tctcacactc acgacagaaa acaaattttt ttatgaatcc atccaccatg 240
 ctt 243

<210> 241
 <211> 586
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(586)
 <223> n is a, c, g, or t

<400> 241
 naattcggca cgaggcaagc gcctgctgga gccccctgc tccttgact tgaactctat 60
 ggggttttgt gggcagaggc tcaggagtcc cctggatttc ccagctgggt atcctgggac 120
 gtggtaagcc ttggggctgg ggtagcatgg gatccccga ggaccanac tctggtactn 180

agggcaaggn gagngaacc cgnacctcan ccgtcccca gtctacagcc tgagcccagt	240
gtgctcccag ctcccantc cncatgaagc ctgccgngg ctggcagnag ggnttagagg	300
nnctggcctt cgattccttt tctgtcgcgc tgctttcacc cgcttcctgc agctttgctc	360
tggcctgatg atcgtgcttt gttctctgta ctgttaactg agcatgccac atttgttgaa	420
atgttggttca agtgtaagca aggagaggtc caattgtgat ggggatggag gcatggactc	480
tgcttctatc cttctactta tctgaaatgt tgcttctgct gttggattat tatacagggc	540
aacctataca gcgaaaaaaaa aaggcaaaaa attctctacc acgaga	586

<210> 242
 <211> 523
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(523)
 <223> n is a, c, g, or t

<400> 242	
ctccagttac ctctgccagt accgctgtgt caacgagccg ggccgcttct cctgccactg	60
tccacagggc tatcagctgc tggccacgcg cctgtgccaa gacattgacg agtgtgagtc	120
gggtgcgcac cagtgtcttg aggcccagac ttgtgtcaac ttccacggng gctaccgctg	180
tgtggacacc aaccgctgtg tggagcctta cgtcnagtg tccgacaatc gctgtctctg	240
tccggcctca accccctgtg ccgggagcag ccctcatcat cgtgcaccgt atatgagcat	300
cacctcgagc ggagcgtacc gcggacgtng ttncaatcaa ncancnntcg tctacctgtg	360
ctacatgctt tcaatcgtgc tgtaactcgc aggaactcta catagcaatc acatgcacgc	420
tgctgtctcg ctcggtgga cggccccgga tacggctgac tgagagtcac ttactctctg	480
atacggcact cttttgaata cgcttggggc tactttgggg ggg	523

<210> 243
 <211> 486
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(486)
 <223> n is a, c, g, or t

<400> 243
 gcacgagggc ctgctgcagc ccggctgcc gctggagtcc ctgtgggtga agtcctgcgg 60
 gtttacggcc gcctgctgcc agcacttcag ctctatgctg acccagaaca agcatctctt 120
 ggagctgcag ctgagcagca acccgctggg cgacgcgggc gtccacgtgc tgtgccaggc 180
 cctggggcca gccggcactg tgctgcgggt gctctgggtg ggcgactgtg agctgacgaa 240
 cagcagctgt ggcggcctgg ccctcactct gctggcccag cccacactgc ggnagctgga 300
 cctganncat acggnctggg cgacccccgc gtctgcagct gctggggcag ctggagcacc 360
 cgctgcagct ggagcactgt cctgtcgact ctatggaccg agcatggacg acgctgcggc 420
 tgtggagaaa gcagctggnc tgcgatcttt ctgaccgcgc ccagngcgt natgaaaagt 480
 ncatca 486

<210> 244
 <211> 342
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(342)
 <223> n is a, c, g, or t

<400> 244
 gcacgaggca cagtagcatc acttcagaaa ggagccagac ttattctcaa agaactatgt 60
 tcacactttt cagcagaaat agcgatgggt gtaacatatg tatcccctcc ctcggtttg 120
 aaggcacaat ctacagtgtt tcttcgcttc ttttctgacg tggggcatga aaaaccaaga 180
 ttgagatttg aactatgagt ctctgcagtg gcaacataat gtgtgtcacc gtcaggccaa 240
 acagccagcc ctgaacggtg gntttattac ttgtgtattt gtgttggtg ataaacactc 300
 atcatctctc ctgtagtccc tgctcatttc acttaaccct an 342

<210> 245
 <211> 650
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(650)
 <223> n is a, c, g, or t

<400> 245
 cgctctatac tagggatccc cgggctgcag aattggcacg aggggagctc cgcattccaca 60
 ccggccagcc cagatcccga ggtctgacag cgcccggccc agatccacaa gcctgccagg 120
 agccagccga gagccagccg gccgcgcgct cctaccccag cagtctctgt ccttcggcct 180
 gagccccgcg tccttcccgg gacctctgcc cctcgggcag tgctgccacc ctgccggcca 240
 tggagacccc gtcccagcgg cgcgccaccc gcagcggngc gcaggccagc tccaccccgc 300
 tgccacccac ccgcatcacc cggctgcagg agaagaagac ctacaggagc tcaatgaccg 360
 nctggctgtc tacatcgacc gtgtgcgggc gctggaaacg aaatgcagtc tgcgcctcgc 420
 aactgatct gagagggggc agccggaggg tctggcttaa gcccgtcca gccgactggg 480
 gagccgccag acctgaccgt ggncagacgc gccgcgcgcg gacgacaagg gaagagtcag 540
 gaccagcacg catcaaagag gaacgaggcc cagccgctag acgaggcgtc accagagcgg 600
 cggctgttag aagccggggg acggacgggg aggcattggc ccggggcaac 650

<210> 246
 <211> 586
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(586)
 <223> n is a, c, g, or t

<400> 246
 gcacgaggat gaattttcac tggcccttcg gcatctgggt gtgcaaagcc aattccttca 60
 ttgccagtt gaacatgttt gccagtgtct tcttctgat ggtgataagc ctggaccgct 120
 atatctactt gatccaccgc gtcttatctc atcggtagcg taccctcagg aactctctga 180
 ttgttattat agttgtttgg cttttggctt cactaatggg tgggccagct ctgtacttcc 240
 gggacactct ggagttgaat aaccacactc tttgctataa caacttccat gagcatgatg 300
 tggacctcag gttgntgagg catcatgttc tgacctggga gaaagttatt gttgggtacc 360

ctctccctct gctaacaaga gcatttgcta cttggcctca tctcaagaga agaacgagca 420
cctgtactca gaagcctcct gaccaccg cgnggncatg ccttncgatt gctgaatcct 480
atcactgtta cattggaacc acgaccacac atactattca ccaagctaca gcacaccct 540
tcacgccgng ttctcaaag ctgaccccc ttaccgata taaaag 586

<210> 247
<211> 600
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(600)
<223> n is a, c, g, or t

<400> 247
gcacgaggat ttaatatgt ggaggggtgg gcttcaggt gaatacagtt gctgggtgct 60
gagccatgcc caactcttg caaccccatg gactgcagac cgccaggctc ctctgtccat 120
ggaattgtcc aggcaagaat actagagtgt gttgccactc tcttctccag ggtatcttcc 180
gaatataggg atcaaactg gatcccctgg attgcaggca gattctttat cctctgagcc 240
accagggaag ctccatgtca ccctaaaacc tccaaattct taaaaaatt accctatcta 300
cttccacccc agtctttctc tcttcttctt ttggtgtctt gatttttgct tttggctctg 360
ccactgcac acatcacctc ttccagcctg actatgagtc gcctcagact cagagcagtt 420
cactcacgaa tcttggttg accacatact ctgnacttg gctctgactg ctttttttat 480
tgttattcga catctccacc cgcgagatct ctttgacag ccttgataa catctgttat 540
accttttgta cgctatttg gaaaaataat taaaaggggc tccccaaaa aattacgcaa 600

<210> 248
<211> 428
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(428)
<223> n is a, c, g, or t

<400> 248
aggtggcggc gctcttatta tggatcccc gggctgcaga attcgcacga gggaggcctt 60
tcggccgcag ccatggcgcc cagccggaat ggcatgatcc tgaagcccca cttccacaag 120
gactggcagc ggcgcgtggc cacgtggttc aaccagccgg ctgcgaagat ccgtagacgc 180

aaggcccggc aggccaaggc gcgccgcatt gccccacgcc ccgcgtccgg tcctctccgg 240
 ccggtggtga gatgcccgcac gggtcagtac cacacgaagg ttcgtgccgg caggggcttc 300
 agcctggagg agctaagggt ggccggcatc cacaagaagg tgcccggacc attgnngatc 360
 tcgtggaccc gnagcgcgga ncaagtgcac ggagtccttg caggccacgt gcagcgctca 420
 aggagtan 428

<210> 249
 <211> 550
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(550)
 <223> n is a, c, g, or t

<400> 249
 naattcggca cgaggggaag tgtataattt cctggccact gcaggtgcca agtacggcgt 60
 gggcttcttg aggctggct ctggaatcat tcaccagatc attctggaaa actatgcgta 120
 ccctgggggtt cttctgattg gactgattc ccacaccct aatggcggtg gcctgagagg 180
 catctgcatt gtagtcggag gtgctgatgc cgggnacgtc atgactggga tcccctggga 240
 gttgaaaggg ccccagggtga ttgggcgtga agctgacagg ctccctctct ggctggacct 300
 cacctaagat gtgatcctga aggtgcgggt atcctcacag tgaaagggtg cacgggcgcc 360
 atcgggnagt accacgggcc tggagtaact ccatctctgc ccgcatgcg acctctgcac 420
 atggtgcaga atcggccaca cttgtgttcc ctacacacag agaanaatac tgacagacgg 480
 cggcaatatg cacctgtgag attaagatac tgtactgctt gctgccttta caattatatt 540
 acctaggcga 550

<210> 250
 <211> 298
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(298)
 <223> n is a, c, g, or t

<400> 250
 taattcggca cgaggccctt ttcataacca acctgggta tgacactgga aacggtattc 60

atcttcccgg cacttctggg cagcagccca gtcttgggca acaaagatc tttgaggaac	120
atgggttttag gcgaaccaca ccgcccacca cggccaccn cgtaaggcat aagccaagac	180
cgtatccgcc gaatgtaaat gaggagatcc aaattgttca tgtccccaga ggagacgtag	240
accatcatct ctaccctcac gttgtgggac tcaatccaaa tgcttctaca ggccaaga	298

<210> 251
 <211> 345
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(345)
 <223> n is a, c, g, or t

<400> 251	
gcacgaggca gcccgaggac agccagcagg acctgcctgg ggagcgccac gccctcctgg	60
aggaagagaa ccgggtgtgg cacctgggtgc ggcccacgga cgaggtggac gaaggcaagt	120
ccaagtgcgg cagcgtgaag gagaaggagc gtaccaaggc catcaccgag atctacctga	180
cccgctgct gtccgtcaag ggcacgctgc agcagttcgt ggacaacttc tttcannagc	240
gtgctgcgcc egggaaacgc gtgccaccgg gcgtcaagta cttcttcgat tttnctgnac	300
gagcagcaga aaagcatgac attanagatg nangacacn attnc	345

<210> 252
 <211> 313
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(313)
 <223> n is a, c, g, or t

<400> 252	
caaaaaccag aagtgacggg aggtgctgcg ctcccctgcg tcgtggcaaa gtcagctggc	60
ctcttgtgtg tgcgtgtgtg cgtgtgagga gccgagtgtg ggtgtgtggc gggcgtggga	120
gcagctttct cacatagtgc cttatacacg ctctaaagaa accagtctta catgttaaga	180
acaaccagtg ttacattttc tacactacct tncatttcag tagctttgat gaccagtttt	240
gcagttcatg gaggaaatca tggngcgtc ccaaggggct ccccatgccc gagagccgac	300
tggtcntgtg acg	313

<210> 253
 <211> 334
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(334)
 <223> n is a, c, g, or t

<400> 253
 ggggtttttt tttttttttt tttgtaataa ataaaaagtt tattaacaag gaatgcactt 60
 ttccagccac aagtgtcttc aaaaattaac aaaacaaaaa aaatatatat atggccatag 120
 ttcacagtta agcagccaaa agctgctcca attatagcct ttaaacaaca tgtgagcatc 180
 ctccctttcc ctcccttcca gtaagtatat tcacagcttc aagtcctctg tccgaagcac 240
 tctccacaga gagaagttaa gagtcaatgc acctttctgc aaaattgtct gaaaagcttt 300
 annaaacagt acgtcaagga aactgcttcg gntc 334

<210> 254
 <211> 448
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(448)
 <223> n is a, c, g, or t

<400> 254
 cgacagccta gagggcttcg tgctgtgtca ctccatcgct gggggaacag gctctggcct 60
 gggctcctac ctcttagaac ggctcaacga caggtagccc aagaagctgg tgcagacata 120
 ctcaagtgtt cccaaccagg atgagatgag cgatgtggtg gtccagccct acaactcact 180
 gctcacgctc tagaggctga ccanaacgc cgactgtgtg gtgggtgctgg acaacactgc 240
 cctgaaccgg atcgccacag accgcctgca catccagaat ccctcattct ccnatcaaa 300
 ccagctggtg tccaccatca tgtcagccag caccacaccc tgcgctaccc cggctacatg 360
 aaacacgacc tcacggcct catcgctcgt cttattccac gccacgctnc acttinctctg 420
 actgtttcac cccctccaca gnacagcg 448

<210> 255
 <211> 418
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(418)
 <223> n is a, c, g, or t

 <400> 255
 catcaggctc gagggctctg ttgtgcgga c tgctccccct ggaccctctg gtttctctgg 60
 gccctctgac ctctttgatc ctgctggtaa agaagggctt cgtgggcctc gtggggacca 120
 aggtccagtt ggtcgaagtg gagagacagg tgcctctggc cctcctggct ttgttggtga 180
 gaaggggtccc tctggagagc ctggtactgc tgggccccct gggaccccag cccacaaggc 240
 ctttttgtng ctctgtttt tctgggtctc ccagctctac agtgagcgcg actacacgtg 300
 tcgtgatctg tggagggggt gacacctctt ttctctgtta catataaaaa tgtaaacctg 360
 ccttaactgg acatatgacc tgatactcac ttatatTTTT tctggctttc ttaacaaa 418

<210> 256
 <211> 421
 <212> DNA
 <213> Bovine

 <400> 256
 gcacgaggct gttttatatt cgccattcc agtccatttt aattctctga ttcctaatat 60
 gttgatgttc actcttgcca tctcctgttt gaccactttc aatttgctt gattcatgga 120
 cctaacattc cagggttctg tgcaatattg ctctttttat catcaaactt tacttctatc 180
 actaattaca tccataactg ggtgggtgtt tttgctttgt tttcattctc ttcttctttt 240
 tggagtattt ttccactgat cttcattaac atatggggca cctaccgacc tgggggggtg 300
 atcttttcat gtctttcttt ttgcttttta ttctgttatg gggtttcaag caagatatga 360
 agagtttgct ttccttttcc gggacacgtt tgtcagatca cacagactgc cgctgggggt 420
 g 421

<210> 257
 <211> 250
 <212> DNA
 <213> Bovine

 <400> 257
 gcacgaggga ttcttatact ttctgaggga gtttaatgac cactagagct tgtcctcata 60

tttttttcag ctttaatactg tatgtctcgt aagatggggcc ttattgcctg tattctttga 120
 tatgtgatta agcctatagc tttcagtgac caaacatttt acagagtaaa aaatgttagg 180
 aagcagaaaa agaaaatctg atttattcta tgtctcattt atccagccct gcacttagat 240
 agaagtgtgc 250

<210> 258
 <211> 512
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(512)
 <223> n is a, c, g, or t

<400> 258
 ttttgacaga gaacattttt ctcacatata ctttcagagt caaagctgtg gatgggggag 60
 atccccccag atctgcaaca gccacggtct ctctctttgt gatggatgag aatgacaatg 120
 ctcccactgt cacccttccc agaaatattt cctacacttt actgccacct tcgagtaacg 180
 tcaggacagt agtagctacg gggttggcaa cagacagtga tgatggcatc aatgcagacc 240
 ttaactacag cnatggggga ggggaattcct tcaagctgtt tgagattgat tcaccagtgg 300
 gnggggttttc ttaaaggaaa ctcacccaaa gcattatggc ttgcacaggn tgggtgtgcca 360
 gngatgacag gggcagcttc ccatctacac gatctgtgct gtgttgtcat gaaaggttct 420
 aagcactgga tgactcccaa agcaaaactg cncccccatc accagaatat acgggaccag 480
 ctataattac acaaaataat gtttgggggg gg 512

<210> 259
 <211> 323
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(323)
 <223> n is a, c, g, or t

<400> 259
 gcacgagggc cttttgacgt tccggccgcg cgccccgcgc ctctctgcta tgcctcgcaa 60
 aattgaggaa atcaaggact ttctgtcac agcccgcgcg aaggacgcca agtccgtcaa 120
 gatcaagaaa aataaggata atgtgaagtt taaagttcga tgcagcagat acctttacac 180
 cttggtcac acagacaaag agaaggcaga gaagctgaag cagtccttgc cccccggttn 240

gnnncgtgaa ggagctgaaa tgaaccacgc atgctgcttt gaactgtatt aaatttttta 300
aattctcaaa aaaaaaaaaa aaa 323

<210> 260
<211> 519
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(519)
<223> n is a, c, g, or t

<400> 260
gcacgaggcc aagaatacag tcacctgcag ccgggggacc acctgactga catcacctta 60
aaggtggcag gtaggatcca tgccaaaaga gcttctggag gaaagctcat cttctatgac 120
cttcgaggag aggggggtcaa gntgcaagtc atggccaatt ccacgaatta caaatctgaa 180
gaagaattta ttcgtattaa caacaaactg cgccgngag acataattgg agtcccaggc 240
antccctgga aaaccaanaa ggncgagcnt agcgtcatcc cctatgaaat cacactgctg 300
tctccttgcc tgcacatggt acctcatctt cactttcgcc tcaaagacaa ggaacaccgt 360
atcgtcagag atacttgac ttgattctga tgacttgta gcagaagttt atctccgctc 420
tnataatcac gttttatnaa gttcttgntg aatggnnatt ctaaaatgta actccatgag 480
aacatcatcc aggnagctg tgctagcttt aactacaa 519

<210> 261
<211> 516
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(516)
<223> n is a, c, g, or t

<400> 261
gcacgagggt ttaattagtg tacaaggagg cttcaagagg gcttctgtgg tgaccccgtg 60
gtaaagcatc tgcctaccag tgcaggagac tccagttcag tctggtctgg gaagatgcc 120
cacaccggg ggaaactgag cccatgtacc acaactgctg agcctgtgtt ctagaatccg 180
gggagctggc acgagaagtc acagcaatga gaagcccaca cactactana gagtagccac 240
actcaccaca caaggcttnc cttgtgctca gttgtagga atctgctgc atggcggaga 300

cctgggtcga ttctgggtcg gaagatccct ggagaaggaa agctacctgc cggagccaca 360
cggaagaccc acctgacagt ctgtgaagaa ctgagagcag ggataaacta ggatccttga 420
ttgtcaactc tatcaaaca actcttctgt tttgtttgct tcacacttct gcgtgcaagc 480
tttccgcccc ttttnaaata aataatttat tatatt 516

<210> 262
<211> 434
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(434)
<223> n is a, c, g, or t

<400> 262
gctgcaggaa ttcggcacga ggctagtttc ttgttttttt tttttttttt tttttttttt 60
ttttgccttt tcttccactt tatttcatat tcccaccaca ataatgactc ctttaattta 120
aactaaaaac catanagggt tccctgaaat tgtggcagca aaggaatgaa agtgtcaaat 180
accgagggac aggtgggggtg gggaatcacc gaatcgtctc actgggctct tgaagttgct 240
ggcggctgaa gctgcagctg gtagggcatt gatggtatct gaaaccgaaa gcctggggcca 300
acctggtggc ggccccttgg ccggtactgg ggtgcacatg aaaacattga aggacccgcg 360
ccgcagaagc gcctccgggg gggggcctgt tgattggggg tacaccctc ccctgggaaa 420
aaatttccat ggct 434

<210> 263
<211> 709
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(709)
<223> n is a, c, g, or t

<400> 263
caaaatgtct tgaaatgata ttaccataat tttaagtagg aaagttacct gaacacttct 60
gcttccactt aactgactgg cccgcaatat tgtaggaaca gcatgtcctt tgtactgtgg 120
tattcagaac agccacagca ctcaactttt ccaaatgatt ctagtaattg cctagaaata 180
tctttttctt acctgttatt tattaatttt tcccatatt tttatatgga aaaaaaatt 240
gtattgaaga tacttagtat gcagttgata agaggaatct gttctaatta tgtttggtgg 300

attatatttta tactgtatgt gccaaagctt tactactgtg gaaagacaac tgtttaataa	360
agaattactt cccaaaaaaa aaaaaaaaaa aaaaaataa ccggaggggg gcccggtccc	420
catcgtccta tgggagcggt accatccacg ggcggcgctt acagcncgga cggaacccg	480
ccgtccccac ctacgcctgc accaccccc ttcccgtggg taaaggaaaa cccaccacg	540
cctccacgtg cgcaccgagg cgaggaaaga agggtaattt gtaatcgtaa tttttatata	600
tttttacatg ccaagccatc cttaaaaaaa aaagaagggg ggggtgtgta aaaactctta	660
aagccccga gaaaaaccta gggccccccc ccccctcttt gggggcgac	709

<210> 264
 <211> 570
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(570)
 <223> n is a, c, g, or t

<400> 264	
taattcggca cgaggctcat ttttccatct cttatgagga cacacatcac tgaatttagg	60
ttctacccta agtccagaat aatctcatct tgagatcctg aaacttatca catttgcaaa	120
attcaagagc cagggaaagc tgagcagtga ctgctaattg aacagggttt gcttcgaggg	180
tgatgagagt gttcaggggt agacagggat gctgtttgta cgactcagtg aatatactaa	240
aaccnaggg attgcatgct ttaaagaaga agcttaatgt ttgtgaaatt agtctcaata	300
tagctgttat ttttaaaga gcctggctcg gggagccatc aatcatactg ctatTTTTAT	360
atogatgtgc cagcagaagt attcttaaatt ctttatgaca ctgttttact tttggctgtc	420
tcccacctgg tttaaatata ttgaacagaa ccagngaaa gcctatggta cagggagagc	480
cccgttttgc catgagggat agaattgggt atgccagaga ttccaagaat ttgtgaaaaa	540
ccagactccg gggccgggta accttctccg	570

<210> 265
 <211> 384
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(384)
 <223> n is a, c, g, or t

<400> 265
 gcacgaggag agaactagtc tcgagttttt tttttttttt ttttaactgaa ggaaaatttc 60
 tttaacaatgc tgtgttggtt tctgtcatat caacgtgaat caatcataat tatattatat 120
 atcctgatgg cacatgttaa gaatgcattt tctcgtttga acattactga gttgggagat 180
 atgcagggtta tggattagtc tctcttgtga ctactgactt aactaaaatt cagaagatac 240
 agccatttac ctacagtcct ccagttaaaa catggcagac ctgagcctan aaccagttt 300
 gctcattttc actccagtat caccacaacta tacctaaaat gttccctctg cagatactat 360
 tcaaagcact ttattttatt ctat 384

<210> 266
 <211> 248
 <212> DNA
 <213> Bovine

<400> 266
 ctgcagaatt gacacgagca ccctctcaag accgagctgc tgcggccaca ctctacagt 60
 ctgtgcaagc ccccgagttc accccaagt ctggagggaa gaaccatgtc tgtgaccagc 120
 aactgcaaag agccaatgcc tgtgtggttg acagccggcg tggagatctc atagctactc 180
 ttgccactgc ccgacagctc cctggctcaa aaattaccct catctacttg ataaggatga 240
 tgtacacc 248

<210> 267
 <211> 719
 <212> DNA
 <213> Bovine

<400> 267
 tgatgccttc taattatggt tccccgggc tgctggtgag acctgtgtat accccacttt 60
 gccctgtgtg gttccagaag aactggtata tcagtaagaa cccaaggaa aagatggctc 120
 gtctggtacg gagagagcat gaccgtcgga ttccagttcg agtatggcgg ccaggggtcc 180
 gatcctgccg atgtggccat ccagctgact ttctcgccc tgatgttcac cgaggggtctt 240

ccataacatc accctaccac tgcaagaaca agagtggcct acatgggacc aactgactgg	300
caaccctcaa gatgccctgc tctccaggg ctccaacgaa gtacgaaatc cgggccgagg	360
acaacagccg ctccactaca gcgacaccta aaatggctgc acgatcacac cggaccctgg	420
gcaagaagag acgaatacaa acaccaaact ccgctgccca catgatggcc ccttgaagtg	480
gcgcccatac agaattcggt cgagtggccg cctgttctga actccttccc caccgctcct	540
caccaaccct gcccgactcg aaaacaacac caacgaaccc aaaacaaaag gaaaatcaca	600
gctgaaaatt ttctgctttc ttaatattta ttacacaaac tacaacaaag aactcaaaa	660
aaaaacagga cgccccccct aggcataata tcggttacgg aggaccgcc cctcctccc	719

<210> 268
 <211> 68
 <212> DNA
 <213> Bovine

<400> 268	
atgaagcggt atattttggt aaattccggt atattttggt aatcacctca ttttttacct	60
ataagcgc	68

<210> 269
 <211> 680
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(680)
 <223> n is a, c, g, or t

<400> 269	
ctgcggccct ctacactatg gatccccggg ctgcaggcgg aagatggcgg ccacggcggg	60
gaacgggggtg gccggcacct cgagctcggg gtctgcggcg gcctcggggc cgatcctgca	120
ggccgcggcc ggcattgtac agcagctcaa gggcgagtgg aaccggaaaa gccctaattc	180
tatcaagtgc gngngaagag ctgggccgtc tcaagctggt ttgttgagg ctcaacttcc	240
tgccaacnnc acaggaccca aatgaccaag cagcagctca ttctggcccg tgacatactg	300
gagatccggg ctcatggag tatcctacgc aaggacatcc cctcctcgag cgggacatgg	360
cccagctcaa gtgctactac ttcgattaca aggagcagct cccagagtca gcctacatgc	420
accactcctg ggctcacct cctcttctgc tgtccaaac cgntggctga ttccaccaga	480
ctggacgggt cctgccaaga catccaacca cggtagacaa gcatcgggnc ctcgagcata	540

cgaggaggca gtacatagta ttctggcaag cacatcccgc gaactacctt ctcatgattc 600
gctgaactca gaagaagttg tgangaaggc atgaaatctt tacaagcccg accccctcac 660
aaccacaaaaa aaaaaccaaa 680

<210> 270
<211> 553
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(553)
<223> n is a, c, g, or t

<400> 270
gctctatact atggatcccc gggctgcagg ttcgcttagg cgcagacggg caaacagagc 60
cagcatgccg gtcgcccgga gctgggtttg tcgcaaaacc tatgtgacct cgcgagagacc 120
cttcgagaag tcccgctcg accaagagct gaagctgacg ggcgagtatg ggctccggga 180
caaacgtgag gtctggaggg tcaaattcac cctggccaag atccgaaagg ctgnccggga 240
gctgctgacg ctggatgaga aagacccgcg cgtctgttcg aagtaatgcc ctgtgcggcg 300
gctcgtccgt atcgggtgct ggatgaggca agatgaagct ggatacatcc tgggctgaag 360
atgaagattt tttagagagac gcctgcagac cagtcttcag ctgggctgcc cagccatcac 420
cagcccgggc tctccgcacg cacacaggtc gcagcaggga gacatccgtc tcatggcgct 480
ggactccaaa ccatcactct cctcctcccc tcgcggggcg nccggccggg aagaanaagc 540
aaagacaggg ggt 553

<210> 271
<211> 488
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(488)
<223> n is a, c, g, or t

<400> 271
gcacgaggag tgaccagggt tagctgggat gccctcagac tgactggac cagccccgat 60
gggatctatg aacggtttgt cattaagatc cgggagactg accagcccca agaagttcac 120
agtctcacgg ttcctggcag ccagcactcc gtggagatnt ccagcctcaa ggctgggtacc 180
tcttacacaa tcaccctgcy tggcgaggtc agggaccaca gcactcaacc ccttgctgtg 240

gaggtcatca cagcggagct cccccagctg ggagacttat tcgngactga ggctggctgg 300
gatggcctca nactcaactg gaccgcagct gatcaggccc ttgagcactt tgtcattcag 360
gcgcaggagg ccacagggtg gnaggcgctc aaactcccgg ggcccaggac atgcggctgg 420
gacatccggg ccctgagcgc ncccctacag agcacatcca cggtgatcgg gctatagacc 480
aggctctt 488

<210> 272
<211> 574
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(574)
<223> n is a, c, g, or t

<400> 272
aaatatggat ccccgggctg cagnaattcg gcacgagggt accatctatt ttttcaaacc 60
tggcaggaat ccccgggggg aagcccgcac actccttcca cgttaccgca gatggtcaga 120
tgcagcccgt ccccttcccc ccagatgccc tcatcgggcc tggcatcccc cgacacgctc 180
gccagatcaa caccctgagc catggagagg tgggtgtgtgc ggtgaccatc agcaacccca 240
cgcgacacgt gtacacgggt gggaagggct gcgtcaaggt ctgggacatc agccaccccg 300
gcaacaagag cccgtctctc agctcgattg tctgaacagg gataaactac atccgttctg 360
caaattgctc cctgatggct gcactctcat agtgagaggg gaagctagta ccctgtccat 420
ctgggacctg cggctcccac ccgcgcatca agcagactga cgctcggcc ccgctgctcg 480
ccctgccatc agccggactc aagtctgctc tcggctgcag cgaggcacat gctggtggga 540
ctgcacacca acgcgtgagg catncaggca ccga 574

<210> 273
<211> 275
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(275)
<223> n is a, c, g, or t

<400> 273
aaatatggat ccccgggctg cagnaattcg gcacgaggca ggccctttttt ttctctctca 60

gacaaccatc tcattggaccc cattccagga aagctctgag tatatcattt catgtcatcc 120
 agttggcatt gatgaagaac ctttacagtt ccgagttcct ggaacctctg ctagtgccac 180
 cttgacgggc ctcaccagaa gggccaccta caacatcata tggnaagcag taaaaaaca 240
 ancagagcag aaagttcgcg aggaggggggt tnccg 275

<210> 274
 <211> 214
 <212> DNA
 <213> Bovine

<400> 274
 cttccgttat actaaggatc ccggccgcgg aattcggcac gagcctcagt ttttttttcc 60
 agcctcaggc ccacctgag ggttctctc caagctggca tcgccccact ttacagatga 120
 ccaccccagg cttggacagg gccgcccctg gacaagaagc tgatcaaggc cctctttgac 180
 gtgctggcgc acccccagaa ctacttcaag taca 214

<210> 275
 <211> 237
 <212> DNA
 <213> Bovine

<400> 275
 cctgcagaat tcgcacgagg agaattctatt ttttctcttg atgaggggtga aagaggaaag 60
 tgaataagct ggcttaagac tcaacattca aaaaactaac atcgtggcat ctgggtcccat 120
 cacttcatgg caaatagata aggaaaaagt agaacgggggt caggcttaat tttttttggc 180
 tccaaaatca ctgcagatgg ggggtgcagc catgaaatta gagatgcttg cttcttg 237

<210> 276
 <211> 611
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(611)
 <223> n is a, c, g, or t

<400> 276
 aattcgcacg aggtggaagc ttttttgtcg ggggttgtga ctggggggccg gagtgcccca 60
 cccgattggg ggggtcccctt ccgcatttag ggtccctgag catgctttct tgccaggag 120
 ctggaaagtt ttctgaccct tttcccaga aagagagaca atagattgcc ttcatTTTTga 180
 tgtctgtggc ctcaaaattg atcatttctt gtctctctcc tccctccccg cctgggggccc 240

ccccgcccat tcatccccac ccctccagag ccacttanga ccacttctg actaattatg 300
 gattccagat gcttgggata aaagaaaaag gaccaagaac ccctccccct ctctgacctg 360
 gccaaagccc tcccccaatc ccaggtctc tggagggtc tgcttaagcc cgcctcaccg 420
 anagnaggna tgtagctgta gaaacaacca tgcaaactgg gtggcctgca gtttacacca 480
 cccaatcttc cctcctggct ccttacatga tgaggacaac tggctgagaa gggcgcaagc 540
 gtctggctca ctgctattct gaaatagaac tggctcttgc tggcgtggcc tgggtagggc 600
 cggcagaggg g 611

<210> 277
 <211> 640
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(640)
 <223> n is a, c, g, or t

<400> 277
 gtgcgttaa taggatcccg gctgagaatg ccgaggaaaa ggccagggtta aaagggcccg 60
 gcccggccgg gtgaagaagc aggaggccaa gaaggtggtc aacccctgc tcgagaagag 120
 gcccaagaat tttggcattg gacaggacat ccaaccacag agggacctca cccgctttgt 180
 caaatggccc cgctacatcc ggctgcagcg gcaaagggt attctttata agcgcttga 240
 agtgccctcct gcaattaacc agttcacgca ggccctggac cgaccaacag ctactcaact 300
 gcttaagctg gccccaagaa cagaccacag acaacaaga gaaaaagcag agctgctggc 360
 cgaactgaga aaaaagcgcg ggcaaaggcg agtccctacc agagccact gtccttcgag 420
 caggtncaca cggccacacc tggggaagac agaagctcag tgttgatc gtcagagtgg 480
 tcccttggtt ggggtctctg ctgcctgggc gcagaggggn ttctatgcta taaggcaggc 540
 ggctggcgcg tgccagagac ggccacgact taccatcacg ggaaagagct gttaggggaa 600
 ccagacatta aacaaaaaga acgggtgggg gaggcgggca 640

<210> 278
 <211> 602
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(602)
 <223> n is a, c, g, or t

<400> 278
 cgccgcgcgt taaactatgg atccccgggc tgcagnaatt cggcacgagg attacaagcg 60
 gatagaaggg ctaaaaatca aaggcgaaga gttcatatga ctctggagtt accatggagt 120
 gctgatagag caattcagca atttgacga actcatagat caaatcaagt taccgctcct 180
 gaatatgtct ttctgatttt ctgattggca gaagaacaaa gatttgcac tattgttggt 240
 aaaagacttg agagtttggg cgcacctaca catggagaca gaagagcaac aaaaactaga 300
 aaaccgagcc gcgtccacct tcgataataa gatggaagaa aagctttaaa aattgtgatg 360
 aaatccaatg tgaaacacaaa ttcttccttg gttcaccact ccagactatc ctggagattc 420
 ttttaagagtt cgcaagactg atagagtgtc ttataaagtg aaaaagtcag aatcttcttt 480
 tataaaattht aaaacaaagn aaattttaac aatttgggcy ggagggccca caaagccttt 540
 ttttttcgca cccctcctgc ggctcaaagc aaaaaagaaa aacataggaa ttaatgttgt 600
 tg 602

<210> 279
 <211> 148
 <212> DNA
 <213> Bovine

<400> 279
 gggctgcagc tccatggggt gttgggtgcct gccagccacg gaggccgggc ggccagaacg 60
 cgcacagagg gatatgatat ggtccggtgt gatggagaga gcaagcggga ccgtgcagcc 120
 tcccaggaca ctggccccgc ggggagcc 148

<210> 280
 <211> 665
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(665)
 <223> n is a, c, g, or t

 <400> 280
 gtggcgccct ctaaactatg gatccccggg ctgcaggtgg actacaccat cactgtctat 60
 gctgtcaccg gccgggggac agccccggcaa gcagcaagcc cgtttccatc aattaccgaa 120
 cagaaattga caaaccatcc cagatgcaag tgactgatgt ccaagacaac agcattagt 180
 tcaggtggct gccttcaagt tcccctgtta ctggttacag agtgaccact gtcctaaaa 240
 atggcccagg accatcgaaa acgaaaactg taggtccaga tcaaacagaa atgacaattg 300
 aagggtgca gcccacagtg gagtatgtgg tcagtgtcta tgctcagaat caaacggag 360
 agagtcagcc tctggttcag acaagcggtta cccaccattt ctgcaccaac caactgaaat 420
 tnactcagt acaccaccag ctgactgccg ggacgcacch atgtcactca ctggttcgag 480
 gcgngaccc gagaaagacg nacgagaaga atcacctgct ctgaactatc ggttggttcag 540
 actagttgca ccaatgagga ggcttgcttt agacctgaca caacgctagg aggtcaattg 600
 aaagcactca aaggccggga aagttgaaca ctcttatga acaaatgaaa acggtcagt 660
 gctcc 665

<210> 281
 <211> 591
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(591)
 <223> n is a, c, g, or t

 <400> 281
 aattgcacg agtgtctatg ctgtcccggc cgggggacag cccggcaagc agcaagccc 60
 tttccatcaa ttaccgaaca gaaattgaca aaccatccca gatgcaagt actgatgtcc 120
 aagacaacag cattagtgtc aggtggctgc cctcaagttc ccctgttact ggttacagag 180
 tgaccactgc tcctaataat ggccccagac catcgaaaac gaaaactgta ggtccagatc 240
 aaacagaaat gacaantgaa agcttgacgc ccacagtgga gtatgtggtc agtggctatg 300

ctcaaaattc aaaacgagag agtcagcctc tgggtcaaac agcggaacca ccattcctgc 360
 accaccacc tgaattactc agngaaacca acagctgact gccaggnac gcaccattt 420
 cactcactgt tcgaggcggt gacccgaaga gagacgnacg agaaaaatca cctgctctga 480
 actatcgggt gtatagacta gttgcacaaa ttaggaggct agtctagacc tgaagcaacg 540
 ctcagatgta cattgaaaga gcctcaaagc cgggaaagct tgaaccctac a 591

<210> 282
 <211> 617
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(617)
 <223> n is a, c, g, or t

<400> 282
 ctgcagaaat tcggcacgag gagcgagtc tgttaggtgc gcgtggaaac tagggtcatg 60
 gctgcgcccgt gtccagcgct ctgccttttc gacgtggacg ggaccctgac ggccccgcgg 120
 cagaaaatta ccaaagacat ggattgcttt ctgcaaaaac tgaggcagaa aatcaaaatt 180
 ggtgtcgtcg gcgggtcgga ctttgagaaa gtacaggagc agctgggaga tgacgttatt 240
 aaaaaatatg attacgtgtt tccagaaaat ggcttggtag catacagaga tgggaaactc 300
 ttgtgtaaac agaattttta aggtcacctg ggtgaaacc taatcaagat atattcacta 360
 ctgtctgagc tacatcgca aaaatcagct ccngaaaaaa aggncacttc atagagtccg 420
 taacgtgagc tgacgtgtcg ccgacggaaa agctgcagca gaanaaccat gtatctacga 480
 ctgtacaaaa gaaacataaa caaagtcgga gnattgcaaa gattgctgta aggctacgtt 540
 tctagagnca atcacttatt ctccctagct gaacaatacg ctggaacggg aagaagataa 600
 acttattttt ggacaac 617

<210> 283
 <211> 583
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(583)
 <223> n is a, c, g, or t

<400> 283
 cacgtagggg cgaccgcagg ccctctccc aggagctgga caagggcatc gaccccgaga 60

gccccctgtt tcaggccatt ctggacaacc ccgtggtgca gctgggcctg accaaccgga	120
agaccttact agcatttgaa gacatgctcg agaaccgcgt gaacagcacc cagtggatga	180
acgaccgga gacgggcccg ggcattgctgc agatctcaga atcttccaga ccctgaaccg	240
cacatatgcc gcgcactgca gctgccagcc cagagagcct cttcttccca gccaggggt	300
ggggagaggg tgcagacccc aaggtgcgcc tgggctgggg gcggggagca ggggggcntg	360
gagggaccct gcccctgggt gtggcgccag gccgcactcc gctggatctt ctggaaaaac	420
tcgngggcag ggccgggtgg ctccaccct gacaggttac gacaggcgcc accgggaagg	480
gggctccttc aggccttggc tctgacgtat tgattaacga gcgcgctgga agacctgttt	540
gaaaaagaat gtcaaccagt taggaaggat aatgggaaaa aaa	583

<210> 284
 <211> 561
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(561)
 <223> n is a, c, g, or t

<400> 284	
aattgcacg aggtcatccc taagtggcct gaagatggac aaagggaagt aacaggcacg	60
tgatgttggc aaggatgctt ctagggctag aggatcagtg gtgggagaga gctgcagaat	120
ccaccagcca gaactgcaga taacgatatc tatggtcagg ggctgtgact gagagaagga	180
aactgaggtt gtgttctgaa agtacataaa ctctcacata taccagttc ttcaccatct	240
tccctcctca ctttgcagng ccattttttt tttgcattag gcaaattgct cagactttcc	300
agagccatgc ccatccgctc tctggaaccc ccacacctct gagagtggga tcaccacgctc	360
ctgcagggct gctccctcc aactaccttt agagagcagg acaggagctg tttcaccaca	420
agacaaaatc aaacgagagc agacgggtaa acaaanaaga caggggcaat gttttcttgn	480
gttttgtttt ttttcattg gaggtgacac aaaaattcaa gctacagttc ccctctcccc	540
cccatTTTTT tttaacaaan a	561

```

<210> 285
<211> 641
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(641)
<223> n is a, c, g, or t

<400> 285
ctcatcctac catatagata ttggtaccct ttatctacta tttggtgctt gggccggtat      60
agtaggaaca gctctaagcc ttctaattcg cgctgaatta ggccaacccg gaactctgct      120
cggagacgac caaatctaca acgtagttgt aaccgcacac gcatttgtaa taatcttctt      180
catagtaata ccaatcataa ttggaggatt cgгнаactga cttgttcccc taatatttgg      240
tgctcccgat atagcatttc cccgaataaa taaataagct tctgactcct cctccctca      300
ttctactact cctcgcatcc ttataattga agctgaggca gaaacagctg aaccgngnac      360
ccctccttan ncagcaacct accatgcagg agctnataga actaccattt cttttcactt      420
acangagtcc tcattttaga gcatcaactc ttacacaata caacataagc cccgcatgcc      480
atacaaccct tgtgttgatc gnatatacgc gactatatat tgctctttta cacgcaccag      540
ctttaaacga actatcactc tcacgcgaga gaactttttt acattttggt ttggcccgag      600
ctttttttct gggggattct ttgcccctca aaaaaacagt a                          641

```

```

<210> 286
<211> 183
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(183)
<223> n is a, c, g, or t

<400> 286
tactatggat ccccgggctg caggnaagttt tttttttttt tttttgtac aaatcaagca      60
ttttattaca taaataaaag cagcacgctt ttattttcta tttaaatacc atacacgaga      120
tttaaaatca catttggcag tggactgcag gatgctcaga cttcacccac atcacnttgg      180
att                                              183

```

<210> 287
 <211> 779
 <212> DNA
 <213> Bovine

<400> 287
 ggcgccctct aaatatggat ccccgggctg caggaattcg gcacgaggcc ggaccggtgt 60
 ccttctctgg aggctcctcg ctggtcgtgg gggagccggg agggcatggc tggctgcccg 120
 aaagagactg cgagacggtg acctgctgtc tcttttcgga gcgggacgcc gccggagctc 180
 cccgagaagc cggcgaaccc ctggtcgggg cggccctaga gccagaggcg gtgggcggga 240
 gcgcgaagcc cgctcgcggg tgctgctgct gtagcaggaa ctcaagatgg tcacgatctc 300
 gctgctgaag cggctcaagg aacgctcggt gccacgctg ctggaggggg gagaccgcgc 360
 gggggggccg ggcggtgctg ggctgtgccc gccgccgacc tcccctggcg gccacccgcg 420
 cgcgcaactg tgtcggaccc cctccctggc ccacctcagc cgccggggcc cagccctggc 480
 ggggtccact cccccccccc gagggcccag ggccgcaccc caccctcacc gctcggggcc 540
 aaataaccgc cgctacctg tttccccgga caacaacacg attattatcc cttgctaattg 600
 aaaaacgccc cttttcatcc ggaatcaacc actgccgccc ccaccacctg gcggggctgt 660
 acggcggggg gctccctccc cccccccatt tctctctttt ttttcgtctc attacatttg 720
 ggggctatat atataatata ttattataga tattatTTTT ttttctatct atattttta 779

<210> 288
 <211> 596
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(596)
 <223> n is a, c, g, or t

<400> 288
 gggctgcaga attcgcacga ggctgtctgc tcgtgggtgga gatggcagta ggatcatttt 60
 tgatgatttt cgagaagcgt actattggct tcgtcacaat actccagagg atgcgaaggt 120
 catgtcatgg tgggattatg gctaccagat tacagctatg gcgaatcgga cgatttttagt 180
 ggataataac acgtggaata ataccatata atctcgagta gggcaggcca tggcatccac 240
 agaagaaaaa gcctatgaga tcatgaagga gcttgatgtc agctatgtgc tggtcatttt 300
 tggnagcctc actgggattc ttcaaatgac atcaacaaat ttctgtggat gggccggatt 360
 ggaaggagca cagatacagg aaacacatac aggacacgat attatactcc actggngatt 420

cgngtggacc cggaggctcc cangetgctc actgcttttag acaaaagggt actacgattg	480
acaggntacc aaaaccacgg ccctagcttt accggccgga tgcgagatgg aataaactcg	540
actgagtcta aaaacaacac accacatgct ggcgaattca aggagaccgn aatcag	596

<210> 289
 <211> 561
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(561)
 <223> n is a, c, g, or t

<400> 289	
naattcggca cgagggcatg aatgtcctgg ccgatgctct caagagtatc aacaatgccg	60
aaaagagagg caaacgccag gtccttatta ggccgtgctc caaagtcacg gtcaggtttc	120
taacagtgat gatgaagcat gantacattg acgaatntga aatcattgat gantcacaga	180
gctggaaaat tgggtngaac ctcacnagca gggctaataa gtgtggagng atcagcccta	240
gattgatgtg caactcaaag atctagaaaa tggcagaata cctgctccat cccgcagttg	300
gtttcatgta ctgacaactc agctgcatca tggacatgaa gagcaagacg aaacatacag	360
aggaaatctt gattcttttt aggagtatac tacaataatg ctcaagactt gtgcttctta	420
aaaaaaaaaa aaaaacgacc gcactgatga cagatctaca tattctgacc tttttatctc	480
actaaagtca accacttttc catcaacgaa cacaaaataa aaaaaaccct gaaaaaaaaa	540
aatttttttt ttttcttttt t	561

<210> 290
 <211> 342
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(342)
 <223> n is a, c, g, or t

<400> 290	
tttttttttt ttcttttctc gctcccttcc tttcttctt acttacttct ttgcttttgg	60
ctgcattttc tttaaattcg acacagttat gttaaaaaat atatgcattg tacttagagt	120
ttggtgtaat ttaaaatatg tggagtgatt tcattcactc tcctgtttta aacatttgtt	180

aaggactcag catgtgaagg agcaagagat atagtcattt ttattagaaa acttcagtgt 240
tctaatttca tcagagaccg ngaataatca gaagatgaca tgatttactt ggaatataca 300
gcttatcaag gacttcgtta tttatgatgg ttatttaaaa tc 342

<210> 291
<211> 518
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(518)
<223> n is a, c, g, or t

<400> 291
cgcagccact ccgaccggtg ccgcctcgtc ctgcttcgcc atgacttcct acagctatcg 60
ccagtcgtcg tccacctcgt ccttcggggg tatgggcggc ggctccatgc gcttcggggc 120
tgggaagcgc cttccgcgcg ccagcatcc atggnggctc aagtggccgc ggcgtgctcg 180
tgtcctcgcg ccgcttcgtg tcctcgtcct ccgggggcta cggcggcggc tatggggcgc 240
cctggccacc ttcgacgggc tgctggcggg caacgagaaa ctcaccatgc aaaacctcac 300
gaccgcctgg cctcctaccc tgagaagtgc gcgccttgga gagccaacag cgattggagt 360
gaaaatcgcg actggaccaa aacaaggccg gcccgccgcg actacaccta ctcaaacata 420
agactgcgna ccaactcgtg gcacatgaaa ctcataatct gcatacacag ccgtcgtcgc 480
aagactcgca cattgagacg acagctggca gagggagc 518

<210> 292
<211> 557
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(557)
<223> n is a, c, g, or t

<400> 292
naattcggca cgaggagcag atcctggctg ccctcgagaa aggctgcagc ttcttgccgg 60
accagtaccg caagcagtgt gaccagtttg tgacggagta tgagccagtg ctgatagaaa 120
tcctggtgga ggggatggac ccttccttcg tgtgcttgaa gattggagcc tgcccagcaa 180
cccacaagcc gcttttggga gctgagaaat gtgtctgggg cccgacctta ctggtgccag 240
aacatggagt cgcagccctg tgcaccgctg cgagcactgc agcgtcacgn gtgaaactag 300

ggcacgcttc accctgaaaa actgcagcgt cttttctgct cggttgtctg gggtaaccac 360
 accaattgtg actttgtata aaaaagaccc ttctcatcc ttnttctccc tcttgtgcgt 420
 gcttgaggc agtgactgct gtttcgtcct ttttgtaaaa agcgaacctc ctgagttttg 480
 attgtggcgg ggtaggggaa agggttgtcg gaggaacgac ctcgcgaggc cgccccgctg 540
 ttgggggggc ctgcgct 557

<210> 293
 <211> 557
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

<400> 293
 gggctgcagg ttaattcatt tttctggaaa aagagaagat gtttatttat ttatTTTTcc 60
 atggtaaatt cttttgaatc tgctcttaa acctaactct gggctctctc aggaggggca 120
 aagaggacct ttgagttaaa ccctccaatg gagaccttg gaaagaaccg gaggcataac 180
 accnagccg ccctccaact ggactgtang actccccaga cccgctgccc agctgcttct 240
 gcccatcgnt ctgcctgggt gggttntggg tcttgatcc caccgagcc ctgtaggatg 300
 gcaccacaag ccctacatga agagctttgt ggtgtcacta aaatgtgtgt ttcggcacgt 360
 tgctgtcatt ctgcctgnct gccatgctga aaagctggca cagcccgana agccagcgaa 420
 aacaccttct gccagantc tgnccactc gagatgagac caccagctgc tgtcctccca 480
 gaacaggtat tatatttaag taaaactgtt actaaaaagt ttgttccaac ttattcaaaa 540
 caagagaaaa ggggcgt 557

<210> 294
 <211> 593
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(593)
 <223> n is a, c, g, or t

<400> 294
 ggggccctct aaactatgga tccccgggct gcagnaattc ggcacgaggc ggacctgctg 60

gagctcctgg cactcctgga cctcaggtat tgctggacag cgtggtgtgg tcggcctgcc 120
tggtcagaga ggagaaagag gcttccttgg tcttccttgg ccctctggtg aaccgggcaa 180
ancaggtcct tctggagcaa gtggtgaacg tggccccctt ggtcccatgg gcccccttgg 240
attggtctga cccccctggc agtctggacg tgaggagct cctggtgctg aangatcccc 300
tggaacagat ggttctctgg cgccaaggnt gacgnngtga gaccgncct gctgactcct 360
gtgctcctgc gctcccgggc ccccgncctt gtcgactgcc gcagacgng acgggtgaga 420
cggcctgctg tctgctgtcc catgcccggt gtgccggggc cgtgnacca gccccggga 480
caggtgaaag cgacaggac gagcataagt cacngctct tgtctcagtc cccgcctccg 540
cttctggagc agtcttcgac ttgtctgtgg ccgcgccccg tttgttctc gca 593

<210> 295
<211> 462
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(462)
<223> n is a, c, g, or t

<400> 295
cacgaggacg gacctgctgg agctcctggc actcctggac ctcaaggtat tgctggacag 60
cgtggtgtgg tcggcctgcc tggtcagaga ggagaaagag gcttccttgg tcttccttggc 120
ccctctggtg aaccgggcaa acaaggtcct tctggagcaa gtggtgaacg tggccccctt 180
ggtcccatgg nccccctgn attgtctgga cccccctggc agtctggacg tgaggagct 240
nctggtgctg aaggatcccc tggacganat tgttctctg gcgcaaagg gaccgtggtg 300
agaaccggcc ctgctgacct tctgtgtctc tgcgctcccg tgcccccgnc cntgtcgact 360
gccgcagacg tgatcgtggt gaaacaggct gctgtctgct gtccatgncc ngtgtgcng 420
gnccccctgna cccagaccg gtgacaggga aaagcaacaa cg 462

<210> 296
 <211> 652
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(652)
 <223> n is a, c, g, or t

 <400> 296
 cggcgtccct ctanactatg gatccccggg ctgcagtggg tctgcagctc tgtggcaagc 60
 cgcgaggagtct gggttctgat ccgcaggatg gggtttgta aagttgtcaa gaacaaggcc 120
 tacttcaaga gataccaagt gaaattcaga agaaggcgag agggcaaaac tgactactat 180
 gctcggaaac gattggtaat ccaagataaa aataagtaca acacacctaa atacagaatg 240
 attgttcgtg taacgaacag agatatcatt tgtcagattg cttatgcccg tatagaagga 300
 gatatgatag gttgtgcagc ttatgctcac gaactccaa atatggngtg aaggntggcc 360
 tgacaattat gctgcgcata ttgtactggc ctgctgctgc cccgcagctt ctttataggt 420
 tggatggaca aaattatgaa gcnagacgag gngatggaga gatacatgng naagcatcga 480
 gccaaactggg cctcactgta ctgnagcaga ctgcaaactc tacgagttaa gtttggccct 540
 aggacgcgag agctgcttcc tacagacacg tcctgttgat caaagcaaat cagcgagccc 600
 gaagcatagg caaagtgaat acgcccctgt ggaaaaaatc caaaactttt ca 652

<210> 297
 <211> 627
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(627)
 <223> n is a, c, g, or t

 <400> 297
 cggcgcccct ctacaactat ggatccccgg gctgcagnaa ttcggcacga ggcaggacaa 60
 tcaagtgtgg cagctgggct catcgtcccc aaacttcact ctggagggac atgagaaagg 120
 tgtgaattgc attgattact acagggatgg tgacaagcca tacctcatct ctagagcaga 180
 tgaccgtctt gtgaaaatat ggactatcag aataaacttg tgtacagaca ctggagagga 240
 catgccccaa atgtgtcttg tgcccagttc atcctgagct gccattttta tcacaanttc 300
 aaaaaatgaa actggcgttt tggcattcaa gcaccttcgc cttgagagga cttgattatg 360

aatggagaag agatgggggg gccgccgca ggtccataac gtgttttggc tttgagaaag 420
aagcatatgt taacttgtcg gagaactgct tgtctggtgc caaggaaaat aatgggccaa 480
catcaaaatc accagccact aaacaaggag agtghtaatta aagaaaagat gcctgcataa 540
aaatgcagtt gaattactca atatcacaat ctaagcgcg tggggggggg ggggaaattt 600
ttccgcagcc cgaaacaatg tgggccg 627

<210> 298
<211> 581
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(581)
<223> n is a, c, g, or t

<400> 298
gcacgaggct tgctgtctgc ctgcctgcct gccactgagg gttcccagca ccatgagggc 60
ctggatcttc tttctccttt gcctggccgg gagggccttg gcagcccctc aacagcaagc 120
cttgctgat gagacagaag tgggtgaaga aaccgtggcc gaggtggccg aggtaccgt 180
gggagccaac cccgtcccag gggaaataag aagaatcgat gatggtgccg aggaaaccga 240
ggggagagtg gggancgaga acccccgcc aaccaccact gcaacacggc aggngtgtga 300
actgaacgag aacacacccc atggtgttgg ccagacccca ccaactgcct gccntcgcg 360
aagttgagag tgtgcacaac gacaacagac ttcgatccct gccatttttg cacnaggnac 420
atgnaggcac caaaaggccc aactcactgn ctactcggcc tgaatacatc ccctgctgca 480
tcgactgatg atcctggctg cgacgctaaa cgccgncact gacaaggaag cacactcgac 540
gaaaatatgg atgaaaaacc aaataaagcc gggggggcct c 581

<210> 299
<211> 522
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(522)
<223> n is a, c, g, or t

<400> 299
ttatactcca aggctggca aaatcacata atcaagattg aattgtttca gaaatattgg 60
caggattctt ggactgtgtc tactacagaa tgaactgtgt cctatcacat tgaatagaca 120

tgtgattaaa gtgttgcttg gtaggaaagt caattggcac gattttgctt tttttgacct	180
tgtgatgtac gagaagttgc gggcacttat tcttgcttct canagttcag atgctgatgc	240
tgtttttctca gcaatggatt tggcatttgc aattgacctg tgttaagaga agaggggaga	300
cagntgaact atttntctatg tgtaatatatac cagtcactct caaatgttat gagtatgtgc	360
ggaatatgct gacataaatg tnnngtagtgc agacaccata ctgcatgaga agtctctgnt	420
gtgcttcaaa atcatatana ttacacagaa attagctttg ttagctggng agntacggcg	480
agcgtcagtc actcttctga gatagaaaag tgaacttgcg tc	522

<210> 300
 <211> 306
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(306)
 <223> n is a, c, g, or t

<400> 300	
ggcgccctt aaataggatc cccggcctca ggggtggcaag aggccgtgct attttttttt	60
ttgtagaagt ttgtcgctga tggcatcttc aaagctgaac tgaacgagtt tctcactcgg	120
gagctggctg aagatgggta ctctggagtt gaggtccgag ttacaccaac caggacagaa	180
atcattatct tggncacca gacacagaat gtacttggtg agaagggccg gcggatccgg	240
gaattgactg ctgtggttca gaagagattt ggcttcctg aagcagtgtg aagcttatgc	300
tgaaaa	306

<210> 301
 <211> 487
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(487)
 <223> n is a, c, g, or t

<400> 301	
naattcggca cgaggctagt ctcgagtttt tttttttttt tttttctttg gaaaacccaa	60
catgctttat ttcatttttt tcacaattta tttaaaccatc tcacatatatac aaaataggta	120
caatttaatt tttctgcttg tccgagaaaac aagacttctt tggaaccatg gnagaggatg	180

aaaatgagac tggcaaagaa caaatgctga anttaaagaa gagacaantg tgggcaaattg 240
 atccacttac ttttgtggaa taagatgtaa agtactgatg ttaaagtcaa atgaaaaaaaa 300
 tacacaatac agctcaacag cagaggagta tctcttctca aattctccta gcaccatcaa 360
 cattcttnca gtatctgaaa tactgttaat tagcaccttc gtattttgaa cnaaaaaaca 420
 caaatacctc agctcatctc tggtcagcac tcacggtgtg gtatcacact cacagggaan 480
 gttttga 487

<210> 302
 <211> 369
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(369)
 <223> n is a, c, g, or t

<400> 302
 naattcggca cgaggatcat atagtaaacc caagcccttg acctcttaca ggagctttgt 60
 ctgccctctt aataacatcc ggcctaacca tgtgatttca ctttaactca atgaccctgc 120
 taataattgg cctaacaaca aatatactaa caatatacca atgatgacga gatgttatcc 180
 gagaaagcac ctttccaggg gcacataccc cagctgtcca aaaaagcctc cgttatgaat 240
 attcttttta ttatctccaa gtactattct ttaccgattt ttttgagctt ttaccactca 300
 gcctcgcccc acccctgacc tagcgctgct gacccccaca cgcattcacc cactaaccac 360
 tacaagtcc 369

<210> 303
 <211> 479
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(479)
 <223> n is a, c, g, or t

<400> 303
 tgagagcagc agccaaaaac cacgctcgag tgacagtagt atgtgagccg gaggactatg 60
 cagctgtagc ctgagagatg caggattctg acagcaaaga cacgtccttg gagacaagac 120
 gccagttagc cttgaaggct ttactcata cagcacagta tgatgaagca atttcagatt 180
 acttcaggaa agagtacagt aaaggagtat ctgagatgcc ccttgagtat ggaatgaanc 240

ctcatcagac tcctgcccag ctgtatacgc tgaagcccaa gctcctttat cacagtctga 300
atggagcccn tgatttataa nctgggtgat gctttgaatg cctgcagctg gtgaaggaac 360
tcnaagagct tttagcttnc actgctgcgt cttcaaacat gtagcccaaca ggctgctggt 420
ggattcactc atgaagagaa accactctgc atgttatgat tgtacaaacc tccaccgca 479

<210> 304
<211> 365
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(365)
<223> n is a, c, g, or t

<400> 304
cctaaattac tcaatagttt taaagtgtta catattcaaa gccttttcca gaccagggag 60
agagttctgt tagagtgaag ggtagtgtct cttgcgcatc ctgtgtgtgt atttctaaat 120
gctactgtgt gtgtttgtgt gtgctccac agtttatatg caaagacttt gagcaacatt 180
tataaaaagt attttctctt agaacaattc aagagattta ttttgtggct accacagnca 240
ctgccagtgg attgtttttt cttctaaatc tgaatattga ccaaaaattt ggtgattttt 300
atgactttgt tgtgttggtg ttttaattttc ttaaaaattt aaactttggt taaaattcag 360
aaatc 365

<210> 305
<211> 728
<212> DNA
<213> Bovine

<400> 305
gtgcctctcc ctatactatg tatccccgcg ctgcagtata ttttgcattg aggagaacat 60
gtaattctcta tcttccctta gcaggatcaa acctagggcc ttctgcattg cgagcacaga 120
agcctatcct ctggaccact tgggggagtc cccgcttttc tttgcatccc aaagaatatt 180
ataactaacc taaagaaaac cgcatttttc ccttatcggc gcgcttcttt ccttttagtct 240
aagacaataa tgtcttattg tcctgggggg gacatagtca gtacgggtta agctcctcta 300
acctttggtg gcattttttg ccccaaatat tgcttttcca aaaaccacag aggctgtttc 360
ttttattaaa ttccttctgc cgccccccac ttgggggtgg gttggcctct tgggtctttt 420
cttaataata aaacaaaacg gtttgactgt gtctcccca ggtacttttt tttctctctt 480

tcagagtact gtcaaccgga ctccagtttt ctctggggac gtcaaatttt cctactotca	540
tgcctctgc tgtggccttt ttccatttca agaaattctc gacctattat tcactcctta	600
aaaaatatat catgcccccc ccctctactt gcttcgcgac agacacaaca attttcttct	660
aagcaggcga accacaacag aataggaaga tatctataca gaaggaaaga acgtattcat	720
ggcgatct	728

<210> 306
 <211> 124
 <212> DNA
 <213> Bovine

<400> 306	
tcagggatcc ccgggctgtc agctgcgtca agtgttgtca tgaatgtttt cctgggcctg	60
gcggcgacta cagcgggtgt gttctgtcct gtcgcgggct gcggtgactc gctggcggct	120
cttc	124

<210> 307
 <211> 713
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(713)
 <223> n is a, c, g, or t

<400> 307	
ctctatacta tggatccccg ggctgcagna attcggcacg aggaggtatg tctgaatgtg	60
tttcgactat ttacagcccc ctttcctcgc agggccccat gagtaagctg tggcggcgcg	120
ggagcacctc tggggctatg gaggccctg agcctgggga agccctggag ttgagtctag	180
cgggtgcca cgccacgga gtgcacaaga aaaagcaca gaaacacatg aagaaacaca	240
agataaaaca ctaccaggat gaagaggctg ggccaacgca gcagtctcct gccaagcccc	300
agctcact caaatcaagt tgggcgggca ggtcttgggc accaagagtg ttctacctt	360
cactgtgatc cctgaggtcc tcgctacccc ctctccctta tgtntgggaa catgaagagt	420
acctgtgaag gagccccctg acataccgcg ctgctggaga aacaaaactg cccctcccat	480
gggnactgct gnggntanag ccagagaaga gaatacgagg gctgagcttg naaagggagc	540
gagacagaaa ccaaagaaac agacgctgca cgtgcagagt tgtgaagccg agcactccgg	600
tgccctgtgt ggctgcggcc cttacaaaag gggagggggg gcggaagggg gggaggggcg	660

ggaaaaaaaa aaacccaag agcggggggg ggggcggggg gggggggggcc ccg 713

<210> 308
 <211> 583
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(583)
 <223> n is a, c, g, or t

<400> 308
 naaagacttc atgaaggaga agaaaaggaa aaaaatcaaa ggatgactac agcctctctt 60
 catctcagct ttgcaaagca tgactcaaca gagagatcac attcttgaag actctccaga 120
 ccacagattg aagataagtt gttgtgctgc actatttctg ttgctactcg tgagagtcac 180
 taccagcttc tcttctcagg attaatgaat gggccagaaa ccggggggcag aatgactnca 240
 ggggcacccc caacaccaga tattggcata aggaaacagt acaatgaaaa aagtcatact 300
 tggacccttg tcattccaca nagcatgatg tactatctaa aacaaaaaga agagctgctt 360
 tggagaaggg ttttaaaagt tgtttatcaa aanaaagatt anaagaggaa aactccagtn 420
 tatnagatgg catttacttt naaggctctg tccctgtgta ggcatgagat tgatacagna 480
 cagacgggct gccaaacagn tactaatgtn tctgctctaa gaagggncct cttgcttcct 540
 tgtgatatct tgcagagccg actgaggaca gaaacacaat aag 583

<210> 309
 <211> 582
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(582)
 <223> n is a, c, g, or t

<400> 309
 caattcggca cgagggtgag tgacatcgtc tttaaaccct gcgtggcaat ccctgacgca 60
 ccgccgtgat gcccaggga gacagggcga cctggaagtc caactacttc cttaagatca 120
 tccaacttct ggatgattat ccaaaatgct tcattgtggg agcagacaac gtgggctcca 180
 agcagatgca gcagatccgc atgtccctcc gcgggaaggc tgtggtgctg atgggcaaga 240
 acacgatgat gcgcaaggcc atccgagggc atctggaaac aaccgctct ggagaactgt 300

gcctcacacc gnggaatgtg nngctcggtc accaagagac ctactgagac aggacagctg 360
 ctgccacagg gccactgcgc ccggctgtgc atacgccggg agacctggcc accagacatg 420
 nctggggccga aagacttctc tcagcttagc acacacgata ctcaggcaca gaacctgaga 480
 ggcatgataa aagaacagag cgcagagcac gcgacacgac accccttctt gcgccccaaag 540
 gggaaagcag ataccagct aaaaagaccg ctcctcgggg gg 582

<210> 310
 <211> 570
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(570)
 <223> n is a, c, g, or t

<400> 310
 gcacgagggt gacatcgtct ttaaaccctg cgtggcaatc cctgacgcac cgccgtgatg 60
 cccaggggaag acagggcgac ctggaagtcc aactacttcc ttaagatcat ccaacttctg 120
 gatgattatc caaaatgctt cattgtggga gcagacaacg tgggctcaa gcagatgcag 180
 cagatccgca tgtccctccg cgggaaggct gtggtgctga tgggcaagaa cacgatgatg 240
 cgcaaggcca tccgaggga tctggaaaac aaccgggctc tggagaaact gttgcctcac 300
 atccggggga atgttggtt cgtgttcacc aaggagacct cactgagatc agggacatgc 360
 tgctggccaa cagtgccagc tgcgcccggc tgtgccatac gccggtgaag cctggccagc 420
 caaacatgtc tgggcccag agacctctct tcagcttagc acacagaana ttcaggcaca 480
 tgaaatctga gaggcacgat agaagaacaa gagcgcacga gcagcgtgac agcgacaccc 540
 ctttctcgcg natcacaggt gacagcaatt 570

<210> 311
 <211> 262
 <212> DNA
 <213> Bovine

<400> 311
 gggctaacag tccgcgagcc cggcaatccg cagccggggc cacaggaaca tgcgtctgct 60
 tgggggggag agggccgggc tagagcgagc aaggtgaggg gggggggggg ggacctcccg 120
 cggatacaag gtcacacacc cctcctaagc cagaaggcga cggttgcagg aagggcaaaa 180
 taaggactcg caaggtgtct aggggaacga gtaaatgaaa ggccacggcg cgagacgcga 240

gcgaccaccc aggagaaccg cg

262

<210> 312
<211> 456
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(456)
<223> n is a, c, g, or t

<400> 312
naattcggca cgagggtgag ttccattgag ttaaataaat accttttga aaggagtttg 60
ccgatgcacc aaaaaagcct gtctgcgctg taggaatgtg tggatgaagct caatttctgt 120
tttatgaaac ctgtttgggc ggggggtctgg gggttgcaca gagaatgagt tcttgtattt 180
cgcgtcacac aggtagtatt ggaaatatgt tattgtactg tgtaaagatg cccagccatt 240
ttgattgttt ggctttttac ttgttacctt ttcaagcttt tgctatacat ctggaaccct 300
caacacatac tgtgttgtac ttccttttgt aatgattttt aatggaagtt tgcacataac 360
tcttgttata ctgtacgata atcttggggg aaaatatttt gcatatcaaa aaaaaaaaaa 420
aaaaaaaaacc gagggggccc gccccattc ccctta 456

<210> 313
<211> 630
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(630)
<223> n is a, c, g, or t

<400> 313
cgggcgccgt taactaggtc cccggctcag cagacacagt gtcgtgaaaa ccaccgttaa 60
acctaagcca aaatgggaaa ggagaagacc cacatcaaca tcgttgtcat tgggcacgta 120
gattcagga agtctaccac gactggccat ctgatctaca aatgtggcgg gatcgacaag 180
agaacaattg aaaagttcga gaaggaggct gccgagatgg gaaagggtc cttcnaatat 240
gcctgggtct tggacanact taaagctgaa cgngagcgng gnatcaccat tgatatctcc 300
ctgtggaaat ttgagaccag caagtactat gntaccatca ttgatgcccc aggacacaga 360
gacttcatca aaaacatgat tacaggcaca tccccagctg actgtgctgt cctggtcggt 420
gctgctgggt tggngaatt gaagccgat ctccaagacg gcagaccgn gagctgcctt 480

tttgcttaca cctggngng aaaactat tgtgcgnta caaaggatnc actgacacct	540
atacagagaa tcaanaatgt tagnancaca cttatanaaa tgctcaccg acanacattg	600
gccatttgct gaaggacaag ctaacaagct	630

<210> 314
 <211> 575
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(575)
 <223> n is a, c, g, or t

<400> 314	
cgggacacag gtgtcgtgaa aaccaccgtt aaacctaagc caaatggga aaggagaaga	60
cccacatcaa catcgttgctc attgggcacg tagattcagg gaagtctacc acgactggcc	120
atctgatcta taaatgtggc gggatcgaca agagaacaat tgaaaagttc gagaaggagg	180
ctgccgagat gggaaagggc tccttcaa atgcctgggg tcttgacaa acttaaagct	240
gaacgtgagc gtggtatcac cattgatatc ntctgtggn naattgagac cagcagtact	300
atgntaccat cattgatgcc ccagacaca gagacttcat canaaacatg attacaggca	360
catcccagct gactgtgctg tctgatcgt gtgctgtgnt ggnngaattg agcncgcatc	420
tccaagacgg cagaccgga gctgccctt tggctacacc tgggtgtgaaa aactatgtt	480
ggcgttacaa tggatncact gacacctan cagagaatca anaaatgtag aagcagacta	540
ttaaaaatgc tcaccgaca gacttgcca tttgt	575

<210> 315
 <211> 596
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(596)
 <223> n is a, c, g, or t

<400> 315	
gctctatact atggatcccc gggctgcagc gtcacttacc tactcgttc ggagtcgtat	60
atcggggaa attgctacat tctgtcaggg tcacgtgatg caacccttct gctctggtac	120
tggaatggaa aaagcagtgg tattggagat aaccgggca gtgagactgc cactccgagg	180

gccattctga caggccacga ctacgagatc acttgtgctg ctgtctgcgc ggagctcggc	240
ctcgtgctaa gtggctccaa agagggacca tgtctcatac attccatgaa tggagactg	300
nntagggact tgnaggntcc anaaaactgc ctgaaaccaa anctcattca ngcgtcgaga	360
gaggccattg tgtcattttt atgaaaatgg gctctctgca catcatgtaa cggaaagctc	420
agccacatgg aacgacatac ataaggcatc actgacggna tggcagactg ctcacggaga	480
acagggggct cagtctgcgg gtcgactaac atgtcgctac agtggagcgg atcggtcggc	540
tgctaacaag gcgctgtgct cctagacacg tgttcacatc acgggaccaa caccct	596

<210> 316

<211> 560

<212> DNA

<213> Bovine

<220>

<221> misc_feature

<222> (1)..(560)

<223> n is a, c, g, or t

<400> 316

gcacgaggcc tggacccctt ggtccccag gtcctccag cggcggctac gacttgagct	60
tcctgccccca gccacctcaa gagaaggctc acgatggtgg ccgctactac cgggctgatg	120
atgccaatgt ggtccgtgac cgtgacctcg aggtggacac caccctcaag agcctgagcc	180
agcagatcga gaacatccgg agccctgaag gcagccgcaa gaaccccgcc cgcacctgcc	240
gtgacctcaa gagtgccact ctgactggaa gatgcgagat actggattga ccncaccan	300
ngctgcacct ggatgccatt aanngtctct gcacatggaa ccggtgagac ctggtatacc	360
cactcagcca ngtggcccat ataactgtat atcacagaac ccagtaaaaa gcacgtctgt	420
acgggagact gacggcgatt cagtcgattg cggcagggtc gactgcgagg gcatcatgat	480
tctggctgag ncacgagctc aaaatactac atgagacagg nctatgacac aatgcactaa	540
agccgtctca gctcagatga	560

<210> 317
 <211> 291
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(291)
 <223> n is a, c, g, or t

<400> 317
 gtctcaatgt ccgtggcgct gaggcaagcg ttgtggggga gaagggtagc gactgtagct 60
 gccgtttccg tttccaaggt ttcgaccagg tcgttgagca cttccacatg gaggctggca 120
 caggaccaa ctcgagacac gcaactcata acagttgatg aaaaattgga tattactact 180
 ataactggtg ttccagaaga gcatatcaaa actagaaaag ccagatcttt ggtcctgctc 240
 gncatacatg cagtctgtag ttaacaaaca caagaatgga gatggaggtt g 291

<210> 318
 <211> 625
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(625)
 <223> n is a, c, g, or t

<400> 318
 gcacgagtgg cggatgacgc cgggtgctgcg ggagggcccg gaggccccgg gggccccgga 60
 atgggaggcc gcggtggctt ccgcggaggc ttcggtagtg gcgccccggg ccgggggtcgc 120
 ggccggggtc ggggccccgg cagaagccgc ggagctcgcg gagggcaagg tcgaggacaa 180
 ggagtggctc cccgttacca agctgggccg cctggtcaag acatgaagat caagtctttt 240
 gaggagatct acctttctct ctgcctatca agaggctgag atattgactt ttttcctggg 300
 agcatccttg aagatgagtt ttgaagatta tgccgggcaa aaccagaccc gggctgccca 360
 ggaaccagtt caaggcgttg ttgctttcgg ggatacaacg actgggggct ggtggcaggc 420
 ccaagaaaat accctgcctc cgggggccat cttctgctaa gtgtccacgc ccgggcaaga 480
 gcttagggga acanaagaca ccccccgctc tgcagggacg gctgggtccg gcgggccccta 540
 cctccaaga cggctcctcg cccggccaaa cggagagcgc tgacagtcct tgccggcgct 600
 gccctggcat ccagccttgt ctcca 625

<210> 319
<211> 641
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(641)
<223> n is a, c, g, or t

<400> 319
tttttttatg gcttcttctt tctttattgg acgctttgta gatgtcacgc aggtctaaaa 60
gttacaccgt taaataatta tttaaaaacc aaccaggatt aaggccctgg cccagagctc 120
caaaccagaa gcagaaagga atggtggcgg tgggctgggg gggtattcct ccaacatcac 180
caaaaccag agaacgagga tcctaagctt ttcacaggcc aaccgggca cgggcctgca 240
ggctgaccct cggaggcctc tggtgcac actatcagat caaaaccagc gaggagctgc 300
cggaacagc cagccgagtc cagacatgga cacagtagct ggatggacac gagacggaca 360
ggtcctgtcc agctgtggac aggattcaga tgcaagctag gcagtggggg caggggctgg 420
ggagcagaat gaagcatgca ggagggggcc cggggcctgg ctcanccacc ggccgccgag 480
cctcaccgtg tgggntcgtt ggggnctggg ctccgccca cactggactt gaggctctgn 540
agcgagagtt ccagccattg tgatgttgct ctcaacaac atncttgcca ctgggagaat 600
tgagatggtg acaaactacg cccaagcatg tggatgccag c 641

<210> 320
<211> 632
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(632)
<223> n is a, c, g, or t

<400> 320
ctctatacta gggatccccg ggctgcagta attcggcacg aggctcggtt tttttttttt 60
ttttttgctc taattaaaat ttttattgaa atctctcaaa cgttaccaag aaatagtttt 120
tgcaaaaggg agggaaggga aaaaacaaac aacaacaaca aaaaacagct aacaagcaaa 180
ttcaacatgg gagctccctc tgctggtctg cagtaggttg atatgttaca aacacattcc 240
cagagacaaa tctatttgct ggagaaggga caaaaaacag gtgtgtgggc tttgcctcna 300
gagagaacac tggcatgcag ngagcggggg agtgaaagca gaggagcagc gcagcgctaa 360

gtcgctggta cagaagtacg ggccacactc aggctatgng taaaggcagc ctgtgactct 420
atgtctctgc atgactgaga caggtggcaa gnaactgggt tggagcctac tattgtcttg 480
ctctcgggtt gctacaacct atgtaggttg cgattagacg acgagcctca agatttgcg 540
tttgttgaca tgcaatgcaa ctagctgtat tactttaaaa ctttacctat gtgaaaaata 600
atccgtgatc aaggaaggca aaaaaactct tt 632

<210> 321
<211> 710
<212> DNA
<213> Bovine

<400> 321
ctacggcatc ccccgggctg caggtcgagt tttttttttt ttttttttta gttaattact 60
ttattacatt ttagtgcttt cttaaaataa atataataat ataattatca aacatacagt 120
gagaagtaaa gcacacgtgt gaacggcatg tcacaggagt tcaactcagga ctgtttcaac 180
actcagcact ggagaaaccg cacaggccta cctatgtaca gacgacccaa ccgccagggc 240
gaggccaccg cgtccctcc gtcctcatgg acacggccac tcccccttgc gttgaaatga 300
ccagtttgca tgttttaact tttctctccg ttgagcttca gttttttttt tttcttttgc 360
agttttgaaa aaattcaagt aacactccca agaaaaaaaa agtgcaaact aataagggac 420
tcagagtccg gcgccgttca ggggcagcgc acagcggggg ggcagccggc cgagtctgtc 480
ccggaacacg gggcgcagga ccccgccac tcgaggaggg ggggacggag gccggcctgg 540
gtccaaagcg ccagaccttt gttgaaagca gcacagcccg cgaacgaacg cagtccgcgg 600
ccgacttcgg accaaggaag gagaggggga aaaataaaag tattaggatc cttttataaa 660
atataaaatt ttcaaatttt ataaagggcg ccccgggggg ggggggcccc 710

<210> 322
<211> 676
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(676)
<223> n is a, c, g, or t

<400> 322
ttgacatcct ccatttcgct gtgctgagtt agtacaggga agacggggaa gtgaaatgcc 60
aacagtagta gatgggggac ttccctggta gtccagttgt tgagacttcg ccttcagtg 120

ctgggggggtg caggttcagt ccctgatgtg ggagctaaga tccctcatac ctcatggcca 180
 aaaaaccaga atgtaaaca cagatacaat attgtaacat attcaataaa gaattaaaaa 240
 aaaatTTTTT tataaaatat acttaaaaaa aaacctgaca gtttcacaga gagggctgtg 300
 ataggattgc tcatgaggaa atccaaggaa tagaagtttt tgatagagga tgatgggaag 360
 tgtgttagca gaagtaggac tgcctactgt ccatctggac catgnaaagc acanattcat 420
 cccgcacagc ttggagagaa tgtctacta agagctcatg ccttgattc ctcccacatt 480
 atttgattg ttggTTTTat atacgttttt ttgctgatat taccatatta ggtttgtgtg 540
 atgattgtag gacattctat gtagagaaag ataaacttaa aaaagaagcc ctttttcttt 600
 ttttnttaa ataatgcac ttaagtgagt caccctttcg gcaaaaaaga gaacacttta 660
 cttattacta tttctt 676

<210> 323
 <211> 297
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(297)
 <223> n is a, c, g, or t

<400> 323
 ctggtgcttt cggcctcgct gcggtgccga cagtccgttc atgcctcgcg tttgagggca 60
 ggggggtggct cagcggctgg ctgcgagctt tctccgctgg ctgaggcccg ccacagccga 120
 catgggctgt ttctgcgcgg ttccggaaga attctattgc gaagatttgc ttctgaatga 180
 atccaagtta actctcacca cccancaaac aggcatcaga aaatcacgaa agggctcatt 240
 gtccttgagc accgtatccg ccaactcaacc ctggggaggt gagtattttt ggcttgc 297

<210> 324
 <211> 639
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(639)
 <223> n is a, c, g, or t

<400> 324
 cggggcgccc tctaaactat ggatccccgg gctgcaggcc cagtttccct ccagaaacat 60
 tcttgggacc agccaccttt cccaggtgt gtgctgccca ctgccacca gaggtgggat 120

ggcaggttcc aggttccctc ttggatccca ggcttcccct gacatcagca ccattcagtg	180
gttttctctg ctccatcgct atcgcttcat gctgaatgga caggactgtt gacctgtctc	240
aagaagccca taagatttga gcagaaacgn tgacttcctt gtacctctgc cagagcagct	300
cccttctccc cccagaatt tcaccagatc tcttcatgct gctcttnatt tncgtacttg	360
aagtggntct gccgacaaac agcagacttt gtgtgtccca ctctgacttg caggacggna	420
gnttctttct cttaagttga tcgcttcttg ctgtgactgn cccgctggng aaaatggttt	480
tgccctggtt taagtgaaca ggagactaga tgctgtacta aacagatgga accgagagaa	540
acactaccat cagtaaagac caccaccaa cactcataaa cgctaacaaa tctgctgaaa	600
gatgtagctg gaaaaaaaaa acggggggccg gccacctta	639

<210> 325
 <211> 580
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(580)
 <223> n is a, c, g, or t

<400> 325	
gcgggcgcg c tctaaacatg gatccccggg ctgcaggttc ctgtgtcgtc ttggaggtga	60
ctcggcgtga ttgaatttgc ggcatcttcg cattcactca caggtcaaaa tgcagatctt	120
cgtgaaaacc ctgaccggca agaccatcac cctggaggtg gagcccagtg acaccatcga	180
gaacgtgaag gccagaatc cagataagga aggcatcccc cctgaccagc agaggctcat	240
ctttgccggc aagcagctgg aagatggccg cactctntct gattacaaca tncaaaagag	300
tcgaccctgc acctggncct ncgtctgagg ggggnatgca naatttcgga aaccnntga	360
cgcagacatc acctggaagg gagcccanga caccacgana acggaagccn aaatcagata	420
gaggcatnnc cccgacacaa gctcatcttg cgcagcactg gagaggcgcc tctttgatac	480
acancaaaaag gcgactgccc ggccctcgca gggggagcaa tctcgaaacc gacgcagaca	540
tactgagggg gcagcacacc aaagaagcaa acaaaaaaga	580

<210> 326
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 326
 gcacgaggcc ttcattccagc accttcccct gaggtagcgc atccggggca ccgtcggacc 60
 aaagagcaag gcagagtgtg agattctaata gatggtgggc ctgcccgctg ctggcaaaac 120
 cacgtggggc atcaaactg cagcctccaa cccctccaag aagtacaaca tcctgngtac 180
 caatgccatc atggataaga tgcgggtaat gggcctacgc cgtcagcgaa actacgcggg 240
 ccgctgggac gtcctgatcc cagcagccac tcagtgcctc aaccgtctca tccagattgc 300
 tgcccgaag aagcgcaact atatcctana tcagacaaat gtttatgggt cagcccagag 360
 acgaaaaatg agaccatttg aaggctttca gcgcaaagta ttgtatttgt nccnactgat 420
 gagactgnaa gacgaacaat aagcgactga cgagaaggaa ggagtcnna acacgcgtct 480
 taaaatgaaa gcacttcacg tgccgatgtg ggacttctgg agagngctgt catgagctgc 540
 aggaaaggag cgac 554

<210> 327
 <211> 261
 <212> DNA
 <213> Bovine

<400> 327
 cacgagggga atcttgtcct tccagggtccg ccagtttaag cgcctttatg aacatattaa 60
 aaatgacaag taccttgtgg gccagcgcct cgtgaactat gaacggaaat ccggcaaaca 120
 aggcacatca ccaccacctc cacagtcgtc ccaagaataa agtggttgct tccactacct 180
 tggccttccc cttgccttca cgtgtccttt tttgtggact tctctctctg gagatttccc 240
 cagtgatctc tcagcgttgt t 261

<210> 328
 <211> 243
 <212> DNA
 <213> Bovine

<400> 328
 ctagtctgag tttttttttt tttttttttt ttttttttct ctgtactact atcactattc 60

tcagggtgggt ttttgagaat gaatgtgcag agtttatgat gtgtgtcaag catgcctcga	120
tagccacagg ctttacaaaa attacctatt gtttgcttct ttggattgac atgcaaattct	180
gtttcatgat tctcacactc acgacagaaa acaaattttt ttatgaatcc atccaccatg	240
ctt	243

<210> 329
 <211> 586
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(586)
 <223> n is a, c, g, or t

<400> 329	
naattcggca cgaggcaagc gctgctgga gccccgtgc tccttgcaact tgaactctat	60
ggggtttggg gggcagaggc tcaggagtcc cctggatttc ccagctggg atcctgggac	120
gtggttaagcc ttggggctgg ggtagcatgg gatccccga ggacccanatt tctggtactn	180
agggcaaggc gagngaacc cgnacctcan ccgtccccca gtctacagcc tgagcccagt	240
gtgctcccag ctccccantc cncatgaagc ctgccgngg ctggcagnag ggnttagagg	300
nnctggcctt cgattccttt tctgtcgcgc tgctttcacc cgcttcctgc agctttgctc	360
tggcctgatg atcgtgcttt gttctctgta ctgttaactg agcatgccac atttggtgaa	420
atgttggttca agtgtaagca aggagaggtc caattgtgat ggggatggag gcatggactc	480
tgcttctatc cttctactta tctgaaatgt tgcttctgct gttggattat tatacagggc	540
aacctataca gcgaaaaaaaa aaggcaaaaa attctctacc acgaga	586

<210> 330
 <211> 523
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(523)
 <223> n is a, c, g, or t

<400> 330	
ctccagttac ctctgccagt accgctgtgt caacgagccg ggccgcttct cctgccactg	60
tccacagggc tatcagctgc tggccacgcg cctgtgccaa gacattgacg agtgtgagtc	120
gggtgcgcac cagtgtctct aggcccagac ttgtgtcaac ttccacggng gctaccgctg	180

tgtggacacc aaccgctgtg tggagcctta cgtecnagtg tccgacaatc gctgtctctg	240
tccggcctca accccctgtg ccgggagcag ccctcatcat cgtgcaccgt atatgagcat	300
cacctcgagc ggagcgtacc gcggacgtng ttncaatcaa ncancnntcg tctacctgtg	360
ctacatgctt tcaatcgtgc tgtaactcgc aggaactcta catagcaatc acatgcacgc	420
tgctgtctcg ctcggtgga cgccccgga tacggctgac tgagagtcac ttactctctg	480
atacggcact cttttgaata cgcttggggc tactttgggg ggg	523

<210> 331
 <211> 486
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(486)
 <223> n is a, c, g, or t

<400> 331	
gcacgagggc ctgctgcagc ccggctgcc a gctggagtcc ctgtgggtga agtcctgcgg	60
gtttacggcc gcctgctgcc agcacttcag ctctatgctg acccagaaca agcatctctt	120
ggagctgcag ctgagcagca acccgctggg cgacgcgggc gtccacgtgc tgtgccaggc	180
cctggggcca gccggcactg tgctgcgggt gctctgggtg ggcgactgtg agctgacgaa	240
cagcagctgt ggcggcctgg ccctcactct gctggcccag cccacactgc ggnagctgga	300
cctganncat acggnctggg cgacccccgc gtctgcagct gctggggcag ctggagcacc	360
cgctgcagct ggagcactgt cctgtcgact ctatggaccg agcatggacg acgctgcggc	420
tgtggagaaa gcagctggnc tgcgatcttt ctgaccgcgc ccagngcgt natgaaaagt	480
ncatca	486

<210> 332
 <211> 342
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(342)
 <223> n is a, c, g, or t

<400> 332	
gcacgaggca cagtagcatc acttcagaaa ggagccagac ttattctcaa agaactatgt	60

tcacactttt cagcagaaat agcgatgggt gtaacatatg tatcccctcc ctcgatttg 120
aaggcacaat ctacagtgtt tcttcgcttc ttttctgato tggggcatga aaaaccaaga 180
ttgagatttg aactatgagt ctctgcatg gcaacataat gtgtgtcacc gtcaggccaa 240
acagccagcc ctgaacggtg gntttattac ttgtgtatth gtgttgatg ataaacactc 300
atcatctctc ctgtagtccc tgctcatttc acttaaccct an 342

<210> 333
<211> 650
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(650)
<223> n is a, c, g, or t

<400> 333
cgctctatac tagggatccc cgggctgcag aattggcacg aggggagctc cgcattcaca 60
ccggccagcc cagatcccga ggtctgacag cggccggccc agatccacaa gcctgccagg 120
agccagccga gagccagccg gccgcgcgct cctaccccag cagtctctgt ccttcggcct 180
gagccccgag tccttcccgg gacctctgcc cctcgggcag tgctgccacc ctgccggcca 240
tgagacccc gtcccagcgg cgcgccaccc gcagcggngc gcaggccagc tccaccccgc 300
tgccacccac ccgcatcacc cggctgcagg agaagaagac ctacaggagc tcaatgaccg 360
nctggctgtc tacatcgacc gtgtgcgggc gctggaaacg aaatgcagtc tgcgcctcgc 420
aactgatct gagagggggc agccggaggg tctggcttaa gcccgtcca gccgactggg 480
gagccgccag acctgaccgt ggncagacgc gccgcgcgcg gacgacaagg gaagagtcag 540
gaccagcag catcaaagag gaacgaggcc cagccgctag acgaggcgtc accagagcgg 600
cggctgttag aagccggggg acggacgggg aggcattggc ccggggcaac 650

<210> 334
<211> 586
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(586)
<223> n is a, c, g, or t

<400> 334
gcacaggat gaattttcac tggcccttcg gcattctggt gtgcaaagcc aattccttca 60

ttgccagtt gaacatgttt gccagtgtct tcttctgat ggtgataagc ctggaccgct	120
atatctactt gatccaccgc gtcttatctc atcggtaccg taccctcagg aactctctga	180
ttgttattat agttgtttgg cttttggctt cactaatggg tgggccagct ctgtacttcc	240
gggacactct ggagttgaat aaccacactc tttgctataa caacttccat gagcatgatg	300
tggacctcag gttgntgagg catcatgttc tgacctggga gaaagttatt gttgggtacc	360
ctctccctct gctaacaaga gcatttgcta cttggcctca tctcaagaga agaacgagca	420
cctgtactca gaagcctcct gaccaccgcg cgnggncatg ccttncgatt gctgaatcct	480
atcactgtta cattggaacc acgaccacac atactattca ccaagctaca gcacaccctt	540
tcacgccgng ttctcaaagc ctgacccccc ttaccgata taaaag	586

<210> 335
 <211> 600
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(600)
 <223> n is a, c, g, or t

<400> 335	
gcacgaggat ttaatatgtt ggaggggtggg gcttccaggt gaatacagtt gctgggttgc	60
gagccatgcc caactctttg caaccccatg gactgcagac cgccaggctc ctctgtccat	120
ggaattgtcc aggcaagaat actagagtgt gttgccactc tcttctccag ggtatcttcc	180
gaatataggg atcaaacctg gatcccctgg attgcaggca gattctttat cctctgagcc	240
accaggggaag ctctagtca ccctaaaacc tccaaattct taaaaaatt accctatcta	300
cttccacccc agtctttctc tcttcttctt ttgggtgtctt gatttttgct tttggctctg	360
ccactgcac acatcacctc ttccagcctg actatgagtc gcctcagact cagagcagtt	420
cactcacgaa tcttggcttg accacatact ctcgnaactg gctctgactg ctttttttat	480
tgttattcga catctccacc cgcgagatct ctttggacag ccttgtataa catctgttat	540
accttttgta cgctatttgg gaaaaataat taaaaggggc tcccccaaaa aattacgcaa	600

<210> 336
 <211> 428
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(428)
 <223> n is a, c, g, or t

<400> 336
 aggtggcggc gctcttatta tggatcccc gggctgcaga attcgcacga gggaggcctt 60
 tcggccgcag ccatggcgcc cagccggaat ggcattgatcc tgaagcccca cttccacaag 120
 gactggcagc ggcgcgtggc cacgtggttc aaccagccgg ctgcgaagat ccgtagacgc 180
 aaggcccggc aggccaaggc gcgccgcatt gccccacgcc ccgcgtccgg tcctctccgg 240
 ccggtggtga gatgcccgcac gggtcagtac cacacgaagg ttcgtgccgg caggggcttc 300
 agcctggagg agctaagggt ggccggcatt cacaagaagg tgcccgacc attgngatc 360
 tcgtggaccc gnagcgcgga ncaagtgcac ggagtccttg caggccacgt gcagcgctca 420
 aggagtan 428

<210> 337
 <211> 550
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(550)
 <223> n is a, c, g, or t

<400> 337
 naattcggca cgagggaag tgtataatct cctggccact gcagggtcca agtacggcgt 60
 gggcttcttg aggctggct ctggaatcat tcaccagatc attctggaaa actatgcgta 120
 ccctgggggtt cttctgattg gactgatc ccacaccct aatggcggtg gcctgagagg 180
 catctgcatt gtagtcggag gtgctgatgc cgggnacgtc atgactggga tcccctggga 240
 gttgaaaggg cccaggtga ttgggcgtga agctgacagg ctccctctct ggctggacct 300
 cacctaagat gtgatcctga aggtgccccg atcctcacag tgaaagggtg cacgggcgcc 360
 atcgggnagt accacgggcc tggagtaact ccatctctgc cccgcatgcg acctctgcac 420
 atggtgcaga atcggccaca cttgtgttcc ctacacacag agaanaatac tgacagacgg 480
 cggcaatatg cacctgtgag attaagatac tgtactgctt gctgccttta caattatatt 540

acctaggcga

550

<210> 338
<211> 298
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(298)
<223> n is a, c, g, or t

<400> 338
taattcggca cgaggccct ttcacacca accctgggta tgacactgga aacggtattc 60
atcttcccgg cacttctggg cagcagccca gtcttgggca acaaatgatc tttgaggaac 120
atggttttag gcgaaccaca ccgcccacca cggccaccn cgtaaggcat aagccaagac 180
cgtatccgcc gaatgtaaat gaggagatcc aaattgttca tgtccccaga ggagacgtag 240
accatcatct ctaccctcac gttgtgggac tcaatccaaa tgcttctaca ggccaaga 298

<210> 339
<211> 345
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(345)
<223> n is a, c, g, or t

<400> 339
gcacgaggca gcccgaggac agccagcagg acctgcctgg ggagcgccac gccctcctgg 60
aggaagagaa ccgggtgtgg cacctggtgc ggcccacgga cgaggtggac gaaggcaagt 120
ccaagtgcgg cagcgtgaag gagaaggagc gtaccaaggc catcaccgag atctacctga 180
cccgctgct gtccgtcaag ggcacgctgc agcagttcgt ggacaacttc tttcannagc 240
gtgctgcgcc cgggaaacgc gtgccaccgg gcgtcaagta cttcttcgat tttnctgnac 300
gagcagcaga aaagcatgac attanagatg nangacaccn attnc 345

<210> 340
 <211> 313
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(313)
 <223> n is a, c, g, or t

<400> 340
 caaaaaccag aagtgacggg aggtgctgcg ctcccctgcg tcgtggcaaa gtcagctggc 60
 ctcttgtgtg tgcgtgtgtg cgtgtgagga gccgagtgtg ggtgtgtggc gggcgtggga 120
 gcagctttct cacatagtgc cttatacagc ctctaaagaa accagtctta catgttaaga 180
 acaaccagtg ttacattttc tacactacct tncatttcag tagctttgat gaccagtttt 240
 gcagttcatg gaggaaatca tggngcgct ccaaggggct ccccatgccc gagagccgac 300
 tggtcntgtg acg 313

<210> 341
 <211> 334
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(334)
 <223> n is a, c, g, or t

<400> 341
 ggggtttttt tttttttttt tttgtaataa ataaaaagtt tattaacaag gaatgcactt 60
 ttccagccac aagtgtcttc aaaaattaac aaaacaaaaa aaatatatat atggccatag 120
 ttacagttta agcagccaaa agctgctcca attatagcct ttaaacaaca tgtgagcatc 180
 ctccctttcc ctccctttca gtaagtatat tcacagcttc aagtcctctg tccgaagcac 240
 tctccacaga gagaagttaa gagtcaatgc acctttctgc aaaattgtct gaaaagcttt 300
 annaaacagt acgtcaagga aactgcttcg gntc 334

<210> 342
 <211> 448
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(448)
 <223> n is a, c, g, or t

<400> 342
 cgacagccta gagggcttcg tgctgtgtca ctccatcgct gggggaacag gctctggcct 60
 gggctcctac ctcttagaac ggctcaacga caggtagccc aagaagctgg tgcagacata 120
 ctcaagtgtt cccaaccagg atgagatgag cgatgtggtg gtccagccct acaactcact 180
 gctcacgctc tagaggctga ccanaacgc cgactgtgtg gtgggtgctgg acaacactgc 240
 cctgaaccgg atcgccacag accgctgca catccagaat ccctcattct cccanacaa 300
 ccagctggtg tccaccatca tgtcagccag caccacaccc tgcgctaccc cggctacatg 360
 aaacacgacc tcacggcct catcgctcg cttattccac gccacgctnc acttncctcg 420
 actgtttcac cccctccaca gnacagcg 448

<210> 343
 <211> 418
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(418)
 <223> n is a, c, g, or t

<400> 343
 catcaggctc gagggctctg ttgtgaggac tgctccccct ggaccctctg gtttctctgg 60
 gccctctgac ctctttgatc ctgctggtaa agaagggtt cgtgggcctc gtggggacca 120
 aggtccagtt ggtcgaagtg gagagacagg tgcctctggc cctcctggct ttgttggtga 180
 gaagggtccc tctggagagc ctggtactgc tgggccctct gggaccccag cccacaaggc 240
 ctttttgtng ctctgtttt tctgggtctc ccagctctac agtgagcgcg actacacgtg 300
 tcgtgatctg tggaggggtt gacacctctt ttctctgta catataaaaa tgtaaacctg 360
 ccttaactgg acatatgacc tgatactcac ttatatTTTT tctggctttc ttaacaaa 418

<210> 344
 <211> 502
 <212> DNA
 <213> Bovine

<400> 344
 gcacgagggg tggttttgct gtgttagcag caatgtcaat acaaggttct gcaaatttac 60
 aaaccaatg gaatattggt gggggaattc aacaatttgc cacaagaaga acttattgaa 120
 tggattaaat ataatactaa accggatgca gggtttgagg gtgccatgcc cacaatggca 180
 agtggttaaac ctctccgcac tcggggccgtt gtgaatcatc cacattatga agatgcgggt 240
 ttaagagcca gaacaaaata gtatttcgat gataaacgga agcagtgaga aaggaggaga 300
 ctgtaaagta cagtgaattt tcatttgagg aatgggggta aaaaatacaa gcggatgcag 360
 agcgggaattg ggatgggaaa cctgtatgag gaaatccctt tcaaccttta agaggcaaac 420
 ccctccccga ttccaacaag gacaaaacta aaaatagagg acgcgctcaa aaacccaaag 480
 gggtctttgt ttaactgctg tt 502

<210> 345
 <211> 588
 <212> DNA
 <213> Bovine

<400> 345
 gaggttgagg tgtggtggtg ggtgggtagg tggttgtggt atgtgtggtg tgggtggtg 60
 ttgttggtg tgggtggtg ttgtggtg agcttggtg tgtgtcgggt ttgtgtggtg 120
 ttctggtctg tgtgtcgtc ttgttggtt tttgtttgt tttctttgt tcgctgtttg 180
 tggtcgtctg tattctcttt ctctcatgtt tgtttcgttc gttttcttat ttctttatgt 240
 cttatctttg taatcttttt ttattttttt catttttata ttctattcct tatatatata 300
 tgttactctt cttttctttc cttttttttt tttctttgtt tttttgtttc tttatatcta 360
 tatcttagct tcttctatct atatattcct acgtactact acatcttttc ctttctctta 420
 tataattttt ttctattcac ttttttggtt atctcttcac ttttcttttt ctcttttttt 480
 tattttatct tattttctat tttcttctct tctcattcct gttgtcgtat ctgctctatc 540
 ttttctgcat tttctctctt ttttttatac tataataatt tatttaatt 588

<210> 346
 <211> 98
 <212> DNA
 <213> Bovine

<400> 346
 gggtgttttg ttttttggtt tttttttgt tctttttttt tttttttttt tattatttat 60
 tgtatttttt cttttttttt ttttttattt ttttattt 98

<210> 347
 <211> 84
 <212> DNA
 <213> Bovine

<400> 347
 ttatatttct tttattcatc ttttttatta tttcattttt attatatact tttcattttt 60
 tattttattt cttttaatcc tctt 84

<210> 348
 <211> 66
 <212> DNA
 <213> Bovine

<400> 348
 attctatttc ttttttatat ctcttccttc ctttgtgttt tgtgtctctt tttttttctc 60
 tttggt 66

<210> 349
 <211> 225
 <212> DNA
 <213> Bovine

<400> 349
 ttggaattag gaacgagggg ggggctgatt ccgcaggacg ccgccgtcgg ggccttcgta 60
 ttggtggtgg cgagagggcc ggccgccgag gacaggccgt ggcgggtcga ggcactcccc 120
 aggagagcaa cattcatagg gtgggttggg tagacggggt acccggccct gaccgatata 180
 catggccgtt gtgggacatt atttactgt tggagggccccc ttcca 225

<210> 350
 <211> 539
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(539)
 <223> n is a, c, g, or t

 <400> 350
 ctgccaagga gggcaagaca tacaggtggt aaggtgatgc ccgctgtacc ttcttcacca 60
 aggtccggag atgacagata ccaactccaag agcgcacaca ggagggccaa agccccacaa 120
 gtggcccgca ctgcgtccaa gagcctttgc gcaacgcgct cctcacctgg gccagcacc 180
 ctgcgcatcc acctaggcgt gcaagcccta ccaactgggtc ctactgtgat aagagccttt 240
 cgacagctct cccacctcca acagcacacc aaaaancaca caagcgacaa accctcaagg 300
 gccacatct ggggtggaat ggggttactc aatctccacc cccaaccacc acgccaggca 360
 aaagggcaag ctcaagggcc cactgctccg ggcccccggc ccgcccctgc gacccccctc 420
 gccatgcctc accgccagcc gctgtgggga ggggggggcg cccccggact actatgagaa 480
 tacaacacag ggggggcggg ggcactgccc caggagagcc ccatcgggga ttttttggg 539

<210> 351
 <211> 575
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(575)
 <223> n is a, c, g, or t

 <400> 351
 gcacgagggg ttcttgcat cctcaggtgt actgngatc ctgtgtctat attgctccct 60
 cactgaaact tccaatagct gccctgtagg ctgcaaactc agatgcccggt gtgggcaagt 120
 gatggagatc agtgaatatc tgggtactaa aaaaaaaaaa caccataaaa actagacagg 180
 gtttttttaa gaaactagac aggggttttt aaaaactgga aagagcatgt tccctggcct 240
 agcctccatt tccatgaagg agtaaaggcc atcctgacct caggtagtga acaatctatg 300
 tgcctgacac acaggtgctg gggcgaggct gngagtgaga gaaaggcccc tcctctcctg 360
 ggtggatgcc agatctacag acctgagccc acaggagcca caccagggca agnaatactg 420
 aaacatctgc aagaccagat gtcagnntgt tttaagaaag cctgaatcag attttctgtg 480

aattcatttt tgcaatggga ttacagcaga aatccacttt ttatgattat gttagtggaa 540
tctaaaaaaaa aaaaaactga ggggccccgac ctatn 575

<210> 352
<211> 563
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(563)
<223> n is a, c, g, or t

<400> 352
gcacgaggct aaagccatgc ctctcctgc agaaccagat tctctctctt tgaccttccc 60
cctcctgttt tccccaatgt ttaaaatgtt tggatggttt gttgttctgc ctgggggtcaa 120
ggtgctaata tagacttaaa cgaatacatt aacggagcta aacacagaca ttttaaccca 180
agtcacgaca ttcttagctg taactcagct ctacggcct ctgtctcacc catgaatggc 240
cccgttttcc tcttgccgcg tgcacctcca ccattgtct tgggggcaca tgggtggaac 300
acttgatctg ctgcgctctg ccttcaacac acattgcac ttcagatttt ctacttttct 360
gtgtcaaaac taaattcacc aagtcagact ttgtgttaat ttatatcagg ggatgggctg 420
ncagggggca tgcctagnng ccccgagagg acaaggggag aacagcacgg atgtggcagg 480
tgctctaggc tgagatcagg gggagagacg cgatcacagc agacgcgata cgatcttgctc 540
gggcggacgc acagaacgag cgn 563

<210> 353
<211> 279
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(279)
<223> n is a, c, g, or t

<400> 353
tgaaaacttc gctgttctat gcttggatct ttgggagggc caagtctggg caccatactt 60
tgacaatctt cctcatcacc aacgatggaa gcggatgctg ggggagtttg gcaacgggac 120
gtggngtgt taaaaaggca gcagaaaagc aaatgaagga caagcaggga gaagagcaaa 180
ggctacatgg agggaggagg aggagaaaaa aggcgaggga gaggaagagg cagacaaaga 240
tgatacgaag acaaggatga ggatgagaga tagagagaa 279

<210> 354
 <211> 555
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(555)
 <223> n is a, c, g, or t

<400> 354
 gcacgagggg ttattgttgc attctccctt agcgttgtcc tgctcagggg cagggcctag 60
 ctacagattg ggcttccaga attgtaataa ctgtttttta aagtcagacc ttggcaagaa 120
 ctacaataat ttgggggttac atgcccttga ctttttaata aacatctctt tctaaggaga 180
 tgcagaagga aaggaggggtc taagcgagac tctggcctac ctataataat gtctgggaaa 240
 caggctaaac ttaaggccat ggtccactct tacttcagag agggagctca gattgtgaca 300
 ttactgtttc ctttctggcc ttttctcttg gatagaagga agaattggaa atagtttgag 360
 tagtggttgg ttcattattac ctctcttgg ttgtgttatt ttttttgcc ccccatatt 420
 aggcagggcc ccctgatgag atgagggggc taggctacag ngcctgaggg aagactattt 480
 ggttgaggag agatctccta caaagngagg ggtagaacct cttctacta tctcttacac 540
 agatcgtcta tccca 555

<210> 355
 <211> 602
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(602)
 <223> n is a, c, g, or t

<400> 355
 taggaatttt tttttttttt tttatcaaac aaaatcacat ttatttcaat agctgcaagt 60
 gcaaatacag caagccagta cacagtttca ggacactgct ttaagtacaa tgaaaacttg 120
 atatacaaaa atgaaagagg aaatagcaga aataaagctc gattttttta aaaagttgaa 180
 gtaacctgaa aacctttaga ctaaaagagt cttacatcaa ttcataaatg ccttaattta 240
 tagataacag tggtacattg taatcaaaaa ggacttccca aagagtcatt tcgaactgat 300
 cagctccaga taagaaattc ctggcagtggt ctactctggg attcggcact cactcatact 360

gtacagactg gtatagttca atccatggca tttgattttt attcaaattc caanaaggta 420
aatacctttt tggtaagntc aataggaggc ccacaccact accaaagagt cctgaaaatg 480
ccactatata ttaaaggctc aagaccattt tggcttaggc ccatgtacaa tgtggggaaa 540
gactcatnan actcgtactt aaatctttgt agatgcaaag gccctaagct nccagaaacg 600
nt 602

<210> 356
<211> 495
<212> DNA
<213> Bovine

<400> 356
gcacgaggtg aaagggttaat ggtttggcac atagttattt gcattttaaa atctctggtg 60
gggtggtgga tgttttaggtg tgggatttag gggacaagga accggtttct tagctaaagt 120
gttcaagtac tgttttgaac agcttattca tttttgccag cccttctgga catcccacac 180
ccacccatct ttgctaggct taaaagactg agctatcccc agtggctggc tggccttggg 240
attggctgca accttggttag aaccacacag gttccatcct cacctagccg cctgttactt 300
caggcgaggg gacaaagacc gccgcaggac agagtaaaag actcagcttc aggacccttg 360
gttcccctta cctaaaccct aatctacccc ttctttttcc tggagacttt cacactcttt 420
tttagagcga caccaatata agctctatgc taaaggagag aaagaggctg ggcgacttta 480
ttcccaccaa cagta 495

<210> 357
<211> 516
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(516)
<223> n is a, c, g, or t

<400> 357
tgctgcgga gccacaagag ggctcgggccc tgggagcatc cctgaatgag agcagcctgc 60
aggacatcat tctggaaaca gtgcccgggg gagccaggac cccaggagga ggctgaagag 120
gaaggtgggg gcggtgaggg catagccctc ccggcctctc agggcacgtc gagccctatc 180
atccacgtcg tgaaccagac caacgccag ggcgagcggg aggttcgtct attacgtgct 240
gttcgaagcc ccgggagagc cccacccgc ctctgagccc cctcggggg cgtcatggga 300

gagcttcagg agcagcggaa gaccagaagt ccagatggtg tgaagctgca ggccccaccc 360
 ttgtaccnca gcttgagct gagccgctgt ggcagcgctt agggcagcct gtcacgatgc 420
 ttagaggagc tggagacggt gcacctgagc atgcgcacta cagcgagacg tcttttgcac 480
 cactcttgtg gcgaagttgt ttgaggggac cgnggg 516

<210> 358
 <211> 384
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(384)
 <223> n is a, c, g, or t

<400> 358
 tcgagttttt tttttttttt tttttgtaac aaaaaacatt tattaattag ccacaaccta 60
 acaaaccctg ctcacctgct tcatccctt tcttgcttgg gagggagggc tccttggtat 120
 gcagagccac aaagtgggag atccaagggg agatgctcct ggtgacttcc ccacggacct 180
 tgctactggc cttggctcct cactggtagt cggcaccttg gactcaaacc tcacttgccc 240
 ttggtcttgc ctactggcaa ctctgggttag agggcttggc ccagctgctg gccctttcac 300
 cccagaagtc tgtgcagcct tgtgcccagc caggcctact tgagcacaag catggcctcc 360
 gtgccgtcct tggcgngcag gtag 384

<210> 359
 <211> 333
 <212> DNA
 <213> Bovine

<400> 359
 ttggtgtttt gagttcgtgt gtctctcttt gtcttctttt ttttcttttt attttgcttt 60
 tttttttttt tttttttttt tttttctttt tctttttttt cttttttttt ttcttttctt 120
 cttctttttt ttttctttt ttttttttct ctcattttct ttttcttttc ttttttcttt 180
 tcctttcttt attttatttt ttttattttt cacttttttt ctaattccac ttctcttctt 240
 ttctctctta ctttcacttg ttataatgct tctccataga ctcattaatg tctaactagg 300
 atgaatataa ttctcaccca tcttttcttc cga 333

<210> 360
 <211> 82
 <212> DNA
 <213> Bovine

<400> 360
 ttgggttttt tttttttttt tttttttttt tttttttgtt tttttttttt tttttttttt 60
 tttttttttt ttttttttat gg 82

<210> 361
 <211> 166
 <212> DNA
 <213> Bovine

<400> 361
 ttcttctgtc ttcttctttt tttttttttt tttttttctt tttttttttt tttttttctc 60
 ttctttcttt tctttttttt ctattttcttt ttcttttatt ttttcttttc ttttctattt 120
 ttttttttct tcttgcttct tttcttttct tgttggtttt ttttgt 166

<210> 362
 <211> 547
 <212> DNA
 <213> Bovine

<400> 362
 tggctggctt catgattcct taaaaaggcc cccaccacag agggaggaca agaaggcggc 60
 tgagaagaaa cggggaggac aaagaccaag aagaagcacg gacaggggaag tccaggcgcc 120
 cgggacgagg aggaggggaag acaatgaggg tggcgagtgg gagagagtcc gaggtggcgg 180
 gccctcgtt aaggaaaagc caaaaatgtg ttgccaaggg aactgagatc acccatgctg 240
 ttgtcatcaa gaaactgaat gagatcctac ggcacgagga agaaaggaac tgatcgtgca 300
 gccagatgag ctgtgggctg cgggtcagtt gccttgaaaa cacctagaga gggcgcatcg 360
 caagataagt tcacatcatt gcttttttta ctacacccca cctgctcgac atgagacgga 420
 gtgcagaaga gttgactgct catgagtgtg gcatctgttg caacctactc ttgtgagaga 480
 atatggaaag gagacgctac caacaccggt gtcggctgct ttactgggac gagtagattc 540
 caaagcg 547

<210> 363
 <211> 508
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(508)
 <223> n is a, c, g, or t

<400> 363
 gcacgagggt ttgtggaaaa taactccttc acttcagcaa aatgttgtca tggaaagggt 60
 gttgacttcc gtgtctggag acttgatgag tcttggtgct atcaattaca gtgtgagttt 120
 gggcaaggca caggttgccc tagatttatt gcttcatttc taaagagagg attgtaatgc 180
 ctgacctgcc tacctcacag ggctattgag gggatccagn gagacaggat acacgtaaata 240
 gtgattttgt aagatgaaaa gtattggacg ggggaaagaa ttttaagccat agattttaga 300
 ctatttttca aatgactgaa aaagaaatct taagaattga tttcctggct taccaacctc 360
 atagagagag acaatgaatt cagctgctaa ggaaaaaact tagnagtcta tgttcttctc 420
 aagggcccgt gctctgcgcg ctacatttct cctcagcagc gactgccaca cactgcgagg 480
 agggaaaaga agagnggaca agatgaga 508

<210> 364
 <211> 522
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(522)
 <223> n is a, c, g, or t

<400> 364
 gtgaggatct cgtctctgcg ccttgagcca tgccgtccaa ggccctctgc agtcgggtgca 60
 agtcttcgga cgtaagaaga cggccacagc cgtggcgcac tgcaaacgag gtaacggcct 120
 catcaagggtg aacggacgac ccctggagat gatcgaaccg cgcacgctgc aatacaagct 180
 actggaacct gttctgctcc tgggcaagga gcgatttgct ggtgtggaca tccgcgtccg 240
 aggaagggtg tggtcacgtc gccagattt acccatccgc cagtccatct ccaagccttg 300
 gtgcctatta ccagaatagg ggatgaggct tgcagaagag atcaaagact cctatccaga 360
 tgaccgacct gctgtagccg atcccgcgct gcgatcaaag ttggaggccg ngcccggccg 420
 ctccaaaatc tccgtagccg gctgaagcac gtnccctcac actttataag tttggattag 480

tttagaaaaa aaaaaaaaaa aaatgggggg ccgacccatg ct 522

<210> 365
<211> 517
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(517)
<223> n is a, c, g, or t

<400> 365
tggttttttt ttttttagttt gggttggtttt ggttttttatt aacagcttta ttgagataca 60
attcacatac cgcagacttt actcatttaa agagttaaca gttcagagat tttaaataata 120
ttcacagaat tgaccatcac cacagatttt taacattttc aacaccccca aaagaaaggc 180
gctaccttgt agcagttact cctcagattt tccccaaccc cccaactaca ggcaaccact 240
aaaccacatt ctgtgtctga ctggccaact ggggacatga ctataatggg agattatgtg 300
gccgtgtgtg cgaaccagct cagggcttaa ggagcaggaa gcaaaggaaa ggctggatgt 360
tgccgcagag acgaagccga ggcaggagct cgggtgggga ggccaggcag aggagcagga 420
gcgcgtctct accaatctng ctcaagagaca gtaggctggg cgcgggcccg gctttcacct 480
ctcgtatca aggcggacac atccacaaaa aaccgcg 517

<210> 366
<211> 429
<212> DNA
<213> Bovine

<400> 366
actaggggag aaaacgggca caacgctgta ataaggcaat tgggatgact tttatcccc 60
cccaaaaggg gggaaggggg gagtccgccc ccccggggaa cggggaacag agggaggcag 120
cgggggggtct ctggtggtgc tttcgtgccg gcacccccta tccgggcgcg ggggtaaggg 180
gagtcccccc aggagacccc aaaaaaagaa ttttttctga acctttaatt gggcctgtct 240
ttaataattg tggggggggg ggttctttgc tccaccacaa gagacggagg ggggatatgc 300
tggggggggc cggcagagga ggttggtccc cggggcagac ctgcaaggcg ggcgcggcgc 360
cgaggaacaa agcggcccg ccccccctct ggccgggcct ccccccgcct gggggggggg 420
gggccacgt 429

<210> 367
 <211> 510
 <212> DNA
 <213> Bovine

<400> 367
 cgcgagcccc aggacctgtg tgcagtagcc gcgcatcccg agccggacca cgtcggagtt 60
 cctctggacc caagacatca gaagccatgt cgaagcacca cagcgacgcc gggacggcct 120
 tcattcagac tcagcagctg cacgcagcca tggccgacac attcctggag cacatgtgcc 180
 gcttggacat cgactcaccg cccattacgg cccgaaacac cggcatcatc tgtaccatcg 240
 gccagcttc agagcagtgg agacattgaa ggagatgatt aagtctggat gtatgtgctc 300
 gttgaacttt ctcatgaacc acggtacacg caagaccata agatgacgtg aggccgagggc 360
 ttgctcaacc cttctttcgg cgggcggggc tgacactaga cgagatcgac tggtcacagg 420
 cgcgccgtgg ggggcgagag gagccacgaa cactgcagct actgaagggc gactcggcga 480
 ccaacatgag ggggggcgag atacgagagc 510

<210> 368
 <211> 131
 <212> DNA
 <213> Bovine

<400> 368
 cgcggggttg gtgtgctggt ggcttggttt tttctgctga ttgtcttgct ggttgcagtt 60
 gtctttgtcg ttgtgtttgg ttttttgtat gttggtgttg ttgtgtggct attatggtgt 120
 gtgtgggtgt a 131

<210> 369
 <211> 520
 <212> DNA
 <213> Bovine

<400> 369
 gtcccccggt ctgtttggta gaacctttat tttgtggtga ataatacctat aattgcttgg 60
 agtaatttat tttgtttatt attttctatt aaaaaattgt cagaccttaa aaaagaaaag 120
 taaggtttaa agcatcatgt tggcaagtca tttttatgtg tgggggaatt tggcaaataa 180
 attttagggg gattgttctt ttttccttct tggacttttt atcagggaga acatgtcagg 240
 ataaaattta aaactaaatt caaaatcatt tgggggcggt gaaacaatga ataatatagg 300
 gtggggggct ctattttctt atttctgttg tatgacagga ctggatcgct ttgtgttttt 360
 aaatattaaa agataggggg ttgccacttc tgggtggttgc tttggactgt ggccccggca 420

gccgattggg ggaggagcaa aaaatgatac tatttggtgtg gggcagggct ggtgggacag 480
 gaacattttt gtgtgtgggt gtttattttt ttagggagag 520

<210> 370
 <211> 493
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(493)
 <223> n is a, c, g, or t

<400> 370
 tttgtgagtc tcattttaag tggccttgat atttaaaact attcctgccca ccaattcttt 60
 tccttgGCCA ctttttcctc gtgtctcttc ctgcatgctg ctttatttgc ttcttcccca 120
 ccaccctggg gtatgagtta tttaaaaatg aaaggggtaa actagtgggg ttgtggagat 180
 taacataaag cactgattta acttgctaag taaactgaaa gataaatcct gactgcctac 240
 tatccaatgt cagttaaccg cgtcctcccc ttcattttct cagtccccta aagcttctgt 300
 cccgattcc ttcatttgc tttgacttca cgttgctctt ctcttctccc gctttgctcc 360
 ttctgtctn catgagttga tgaaatggaa gattaattgc atgcactagg ttggaggggg 420
 tgnngtntgt ctttctacta aggtatagcc atcacttcct agataaatac tacctaaatt 480
 gatgtctcat ttg 493

<210> 371
 <211> 332
 <212> DNA
 <213> Bovine

<400> 371
 ttggtgagtg tcattttaag tggccttgat atttaaaact attcctgccca ccaattcttt 60
 tccttgGCCA ctttttcctc ctgtgtcttg ctgcatgctg gtttatttgc ttcttcccca 120
 ccaccctgtg gaatgagtta ttgaaaaagg aaaggggtaa actagcgggg ttgcggagat 180
 gaacataaag gactgatgta acttgctaag aaaactgaaa gataaaacct gactgcctac 240
 tatgcaacgg cagttaaccg cgtcctcccc ttcatttgc caggccccta aagcgtgccc 300
 ccgattcct tctttgctct tgacttcact tg 332

<210> 372
 <211> 494
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(494)
 <223> n is a, c, g, or t

<400> 372
 gcacgaggat cttgctgctt atatgtacct gtgcttatat ccgataccttg gcacccagcc 60
 tcctggacag aaataaaaact ggggttggttg gtatatatttg gaagtgtgcc agaattggtg 120
 aacggaagag tccgtatggt gcagtgtgct gtatcgtgat ggccttcagc atccttttca 180
 tacagtagct tggaacaacg ccagaattcc aggcgctatc agatttaaata atgacaaaaa 240
 aggacgatct gccgaaaata gaggaagaa tggtaaccc tttatctctc aaattgaaga 300
 gctacactct cactgcgttc tcctttttgt attggaccaa gtcttataaa aattagagta 360
 acattaatac cgagtgaat ggnetgaaca tcaccacac tncgctcata tacatttgct 420
 tgtcatcttt ggctgatcag cttaggagat cttagccaag aaaaacaaag taatatagtc 480
 ccttctggat gaag 494

<210> 373
 <211> 414
 <212> DNA
 <213> Bovine

<400> 373
 gcacgaggct gggctgtgca aagctgggtt tgcaggagat gacgcccccc gcgccgtctt 60
 ttctttcatt gtggggcggc ctctgacca agggggtgat ggggggaatg gggcaaaaag 120
 acaggtatgg gggagatgaa aatcaaaaga agggggggga tcttactctc aaatacccca 180
 ttgaacaccg cataattact aactggggtg acaggagaa aaactggcac cactccttct 240
 acaatgagct gcggggggcc ccgagaacac cccacctgtc acaaagcccc cctgaacccc 300
 aggcaacaag agaaagacca aaacaagttg aaactcaaca cccgcaggac gcggcctcaa 360
 ctggcttcct ctttgcttgg cgacaacgca gggccggatt aggaggggac caca 414

<210> 374
 <211> 465
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(465)
 <223> n is a, c, g, or t

<400> 374
 gcacgagggt ggagtccac tgctgtgct cggatgtgaa gctcaagctg tacgaccgga 60
 gtctggagtc aaaccggag cagctgcagg ccatgaagca catcgttatg ggcaccaccc 120
 gccccgcccc ctacatcatc tttgggcctc cggggacagg caagactgtc accctagtgg 180
 aagccatcaa gcaggtggtg aagcacttgc ccaaagccca catcctggcc tgcgctccgt 240
 ccaactcagg ggctgacctc ctctgtcagg cctccgggtc acttaccac tccatctacg 300
 ncctctggcg cccacaggat atcccctggc cctgagactc agccctgtgt tactggagca 360
 aagagggatt tgtttttctt cagaagagct cagnattcgn gcttattaca cctctcctgc 420
 agcgtggctc agcacttctt catcctccac ctctttcgca gcggc 465

<210> 375
 <211> 436
 <212> DNA
 <213> Bovine

<400> 375
 tggaattcgg cacgagggcg agaggagggg gctgggcccgt ggggagcccc gcggaatggg 60
 gcaccgtggg ctacttctgc tgatgctgtt aggcgggttc ctctgggacg cattcaccgg 120
 ctgacgctga cgggggagaa gcgagcagat atccaactga acagctttgg tttctacacc 180
 aacggctccg tggaggtgaa tctgagcgct cctgaggcta ggccgccagg atacagaaga 240
 gaaggccccg ctgtgggggt caggctgacc cggtgagatc tgcagcattc gtcctatca 300
 atcgggactc atgagtggct ctacggaaaa cagagcagcc ctggtcttac tcacaaacaa 360
 ggattggagc cagtcgaaag atgggagcaa aaaatattct cttgctggct cctcgcatca 420
 cctcaacagg ctccga 436

<210> 376
 <211> 332
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(332)
 <223> n is a, c, g, or t

<400> 376
 ggggtgggag caggaggcac gcggggtgtg aggccacgca tgagcggacg ctaacccccca 60
 cccagccgc aaagagtcta catgtttagg gtctagacat gttcagcttt gtggacctcc 120
 ggctcctgct cctcttagcg gccaccgccc tcctggccct gctggcaaag aaggcagcaa 180
 agggccccgc ggtgagactg gccccgctgg gcgtcccng gaagtcggcc cccctggtcc 240
 ccctggcccc gcggggagaa agggagcccc tgggctgacg gacctgctga gctcctgcac 300
 tcctgacctc aggtattgcg gacacgaggg gg 332

<210> 377
 <211> 407
 <212> DNA
 <213> Bovine

<400> 377
 gcacgagggg ctgacaatga tcttatcaat attcttgac cttttttatc atctttcaac 60
 taaaagtttc aaaacacaac ttttatcaca atccagaact gacaccaaca aaaatattaa 120
 aacaaaacac cccttgagaa acaaaatgaa cgaaaattta tttacctctt ttattacccc 180
 tgtgattgta ggtctgcctc tcgtgaccct catcggaact ttcgcaagcc tactatttcc 240
 acatcaaacc gactagaagg catcgctttg taccctccac atgaatactc tacttgtata 300
 aaacaatatg agtatcacia tcttaggaca aacagacatt atattatata ttgtcctttt 360
 gggagcacia actactagcc ttaccccctc ttccaccaca cacacat 407

<210> 378
 <211> 478
 <212> DNA
 <213> Bovine

<400> 378
 gcacgagggc cctcggccca tttcgagttc agacagcgac agtgataaat ccacagaaga 60
 ccccccaatg ggtgagcctc accatcacc aaccctcca atagagttag cgaagctgcc 120
 atccttccca gcataactcc cacctagccc ttcatttgcc cataatatat gagagctaga 180

agggccctta ggaagcctgt cattcaatcc cctcacttta tagatgggga aactgaagcc 240
 cagagccact aaccaacca gattcccatc cgggggccct tcatttatca cttcaccttt 300
 tctcttctca ttctccttgg ggaatatcct ttaagccact gtgtcctaag gctagtaact 360
 gccaaaggaa gtgcaagggg ggggcagggc tgtgggcgct ggggtgcaca cgcgccagag 420
 tggcttgctg gtgaggggtga ggaatttcag ccagacggaa agccagcttg agaccct 478

<210> 379
 <211> 195
 <212> DNA
 <213> Bovine

<400> 379
 gtatgaagta aggttttagt tggttcaa at gattccaaat ggggggcggt tggcttgga 60
 tacagaggac actctggggt gtgggaaggt ggggaaggaa ggggaaggaga gggccgcctg 120
 ccggggttgt gtgtttgaag ctgatctccc gagcgcccc gtggcgctg gcctgcgttt 180
 tgtgtgagtt gaaag 195

<210> 380
 <211> 603
 <212> DNA
 <213> Bovine

<400> 380
 ccgggcggcg ggcgctctat aactattggg tccccgggc tgtttttttt cggcacgaag 60
 atgatgttga atggtgttgt gtgagaccta caagacctt tattaactaa caccacaaaa 120
 agtcgtgctt ttattatggg ggacggaata caaaaggagg aaggaaagaa acacctgggg 180
 gaatgggcgg attgggcctt agaggagggg gtgaagcagg ggttgggggt ttgtgagttt 240
 tgtcaaagga acgcactggt cgtagccaac accccccctt ccaacaacac aggagatgac 300
 tgtacacatg gacatcacct gatggccaac actgaaatca gattgttttt tttctttgca 360
 ggcaaggagg ggaagccctt tccagccgga aaaacaagac cgggtgagag atgtggcgaa 420
 cacatgtact ccctttggca attcacactc aaatgaagat gtggggaaac caccaccct 480
 gcggggtgcc ctcttaatc cttttgctct cattggaggt aattggcttt aggctggtcc 540
 gttgtcgggg cggcgacctt gtggggtcgt gcttgcttgt tcggcccgcc ccccccgcca 600
 aac 603

<210> 381
 <211> 84
 <212> DNA
 <213> Bovine

 <400> 381
 cgggctgcag gaaaccggca tacgaggggt gaagttgtat tgggtgtcttt tgtagacaat 60
 actagaagtg tttttattat ttat 84

<210> 382
 <211> 466
 <212> DNA
 <213> Bovine

 <400> 382
 tgggtttttt cagttaaaaa ggcaaaaact ttatttagtt tttgggggaa atacaagatg 60
 catgtaaaca taaaatacaa aacaaaacaa cccaaatctt acagtctaga agcatgccaa 120
 gacagaacat tttctgcaga ccagagtccc gtcaaaagga taaagggcac ctggaaaggg 180
 ggggggcaag gggctgggtc ccttcccaa ggacactgct ttttgtgatg agaacaactg 240
 aaaaaaacca acccattata aaaatataga aactgagaca gtttacacca cctgggcctg 300
 gaatttttag cctcgactgc ctgaattcatg ttctttcttc gttctgtgtg aggagaaagg 360
 gatgaccccg cagccccagg ccctgggcgg gggggggggg gcacgggaga ggcccaaaca 420
 acagtgctcg gcagcagaac ccaaccacct acaacgcccc accgct 466

<210> 383
 <211> 511
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(511)
 <223> n is a, c, g, or t

 <400> 383
 gcacgaggct tgcccgccac ccgtgcgccc agtccgagag gccagcccag ttctcccgtt 60
 cctcactgcc cgccggccgg cccgtcccc actgcaacca tggacgccat caagaagaag 120
 atgcagatgt taaaactgga caaggagaat gccatcgacc gcgcagagca ggctgaggcc 180
 gacaagaagc aagctgagga ccgctgcaag cagctggaag aggagcagca ggccctccaa 240
 aaaagctaaa aggacggaga cgagnggaaa agattctgat caggaaggat gccagagaaa 300
 ctgagcagct gagaagaagc actgtgctga gcagagggcc tcctgaccgg catcactgga 360

gagagagctg acggccagag ctctgctcag ccgagagcgg ggagtgaaag agtgagaagg 420
agaagatgag tcatgaacga cttgagagag aaaagagtga gaagcatgag agcaccatgc 480
ggatcgacga atggagggcg aacggatcga g 511

<210> 384
<211> 502
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(502)
<223> n is a, c, g, or t

<400> 384
ccaaggacgc cttatgactc cgtttactaa atgtaccact cagacctgca ggccttgctt 60
ggggtgggac cttgatactg gagttttggt tattaatcct tcctcctctg accctaaatt 120
cagaacacag aaaggggatcc agtcagggaa tggaaggaaa tctcaccacg aaaggcttaa 180
gtaaactctt aaaaagcagt tgtattgagg tattttttta agtgcacaat ttgataagtt 240
ttgacatcta tatgaaatca tggccacaat caagacatag gtgtatctct cactgccgna 300
cgttactgct gaagacgtcg tttgctatta ctctctcaga atctgagcac tgnagatcag 360
agactgatta cagggcccta tgacctgtcc tatcttctaa gaccgcgaga gccacagact 420
acagctctga agagataacg gccaaagact tgtacgaaac aacagcttct cagactttat 480
atggtgatag acgagacgag aa 502

<210> 385
<211> 507
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(507)
<223> n is a, c, g, or t

<400> 385
gcacgaggct tatctccagg tgcgtacggg agctgagggt ggcgaaactt cgaggggtga 60
ggagaggggt ccgggatcca ggtgtgagag aggggtgggc gtgaaggcga aaagaacggg 120
cccgccccct tccggcctgg aaagtagttt ctgtgggtcc ctgggaacgt cggaatacca 180
gatctcgatc cgtggggggcg gggtccttgg gggaacttga gcgccccctt ctgggaaccg 240
gcgggtctgt tcgcagggac tgctgttggg gcctgattgg ttagacagac gttccccgaa 300

gccacgggaa gccctacccg cggggcgtgg gtgggggata cctacttagt actcctgcct 360
ctcctgcata gcagcccctc cctagtgcac tgtccctgtc cgggccatna gacatgcacc 420
accacgcggc gctctgttga gaaggaagga cctcgtctca gcttgctggg agaaccgagc 480
ccttgctcgc cacaacggaa aagagag 507

<210> 386
<211> 479
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(479)
<223> n is a, c, g, or t

<400> 386
gcacgaggct gacatcggcc tcctgcagag cctccagaac ttggccgtca cggccaaccg 60
gatcgaggcg ctgccacccg agctcttcca gggccggaag ctggggggccc tgcacctggg 120
caacaacgtg ctgcagccgc tgcctctcgc ggtgggagcg ctgaccagcc tgaccagat 180
cgagctgctg ggcaaccgac tggagtgcct gcctgtggag ctgggagagt gcccgctgct 240
cagcgagctg gcctgggtgt ggaggaggac ctgttaacac cctgcccctg agtgaagagc 300
gctctggagg tgacaggagc agcctgagtc catgcatgag cacggtgccc tgggggagcc 360
gcaccgaccc cagcagcctg acccgaacca gagcgacgac accagcacct gcagaggcgc 420
gggctgncga caagacgact gaggtgccct tttctggata gcccagcgg cgcgaggaa 479

<210> 387
<211> 490
<212> DNA
<213> Bovine

<400> 387
gcacgaggct cgctccggtg tccccgcgcc agagacacag cagcgctccc tctgcccaca 60
cccaccgagc cctcgcgctc gcctctcctt ccggagccag tccgtgctac cgcagtcgcc 120
cagcccacca ccaccctctg cagccatgtc caccaggtcc gtgtcctcgt cctcctaccg 180
caggatgttc ggcgggcccc gcaccgcagg cggccgagct ccacccgggc tacgtgacca 240
catccacccg cacctacagg cgggcaggcg ctggcccacc ccgcccacc ttacacctgt 300
cccgggtggc ggtcgccagc gctctgccgg cgctgggggg ggtgcggcgg cgggtgtgaga 360
ccggggactg ctgtggcagc ctcacacgat cagacaccga ccacagagga gcgagaccag 420

accgtccaca cgcagggcgc tcgacaaaac aacgtgcgac gaggctaggc agcagggcgg 480
gacttcagag 490

<210> 388
<211> 548
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(548)
<223> n is a, c, g, or t

<400> 388
tggaattcgg cagcagggcac caaccgattc gaccagttat ttgacgacga atcggacccc 60
ttcgaggtgt tgaaggcagc agagaacaag aaaaaagaag ccggcggggg cggcgttggg 120
ggccctgggg ctaagagcgc agctcaggcc gcagctcaga ccaactccaa tgccggcgggc 180
aaacagctgg gtaaagagtc ccagaaagac cgcaagaatc cgctgcccc cagcgtcggc 240
gtggttgaca agaaggagga gacgcagccg cctggggcgt gaagaaagag gaataagacg 300
tggttgaaga gacctgatca acaacttcgg gtgaaggga gataatgaag gagaccgaag 360
gcgaccacct gtgaaagaga ttcgaaagcc attgagaaag gtngaggaga gatttcctgt 420
atgacgattt tgccgccttc cgagccggtg gtctggaggg cgggagccgg acgggagggc 480
ggagagcttg tctcggaac ggattgtagc tgggagggga cgccgagcgg gcaagggggg 540
gatgaacc 548

<210> 389
<211> 457
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(457)
<223> n is a, c, g, or t

<400> 389
tcttgctgcc ggatctggct tccgtgggga ccctcccttg atgaatatgg ccgtcctttg 60
cttattatca aggatcaaga ccgcaagtct cgatttatgg gacttgaggg cctcaagtct 120
catataatgg cagcaaaggc tgtgggaaat acaatgaaaa catcgcttgg accaaatggg 180
cttgataaga tgatggtgga taaagatgga gacgcgaccg tgaccaatga cggcgccacc 240

atcttaagcc tgaggacggt gaccccagac ggcagctgag gctgaactgc caaatccaga 300
 tgtgagaggg agaggaccac agaggggttg ctgctgcgcc tggggagagc gagagagctg 360
 gccgggatga cccacgaggc cgcgatacaa cgcggcgctg cttgaaaccg acaatangac 420
 gggctgagac gaaaacgtgc ccctcaagca gaccgct 457

<210> 390
 <211> 153
 <212> DNA
 <213> Bovine

<400> 390
 ttgggtttac atctccccac atttcatacc agtattccaa cagattcttt attacttaaa 60
 cccaaaacca cttcaaacca ttacccttgg attgggactt agcctttagc tgtgcacacg 120
 gagaaaattc gcgccacatt tgggcctcca cac 153

<210> 391
 <211> 149
 <212> DNA
 <213> Bovine

<400> 391
 tttgaattcg gcacgaggct cgggtttttt tttttttttt ttaggttttt aaatcaactt 60
 ttccaataag caactagggt tagcccacat aaatatgcta ccaataaatg agaacgctta 120
 atggcttatt acatgctatg tatgtgctt 149

<210> 392
 <211> 469
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(469)
 <223> n is a, c, g, or t

<400> 392
 ttggtttttc cttacttgga gatcttctat ataaatactg taaatgacat cttttcgtac 60
 ggacctgttc gagcgttgct ttccagagcc cacgaacagt gctggcccga tcttgggctc 120
 tggctgcccc atccgcgtgg agcccttgca ggaagccccg gcgagcagag gagccgcgcc 180
 tgggtcccag cagcgtcac tagtctgtca cttggcccgg ngcgggctcg tcgtcatctt 240
 cttatggcca ggatgtactg actaaatctg gttagcaaat cagacctcct cccttcagag 300
 catacaggtc atctcctcag cttcctccac cgagctcgtg ggagggggcg accccggggc 360

ttgaggggag ggggagctgc ctctgggag ctgagccctc cagacaaacc ttcttctcct 420
cgcatgcaac aggagaccc gcttatcgtc atcacttcaa aagaagagc 469

<210> 393
<211> 518
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(518)
<223> n is a, c, g, or t

<400> 393
gcacgaggag agaactagtc tcgagttttt tttttttttt ttacgaacg aggcaattta 60
ttaaccagc atcatttggt ctaatgcttc ttgttggcag ctgccacctg tccagcgatt 120
ctgtccagat ctctctgtcc ctgaggcgtc agtttgcggc ccccatcttg gtccttttcc 180
accattttca gccctccag ggcttgagg acccgccgg ccacgctctt ggagcctctg 240
ctgaagtggg tgggcatgac gccgttcctc tggcgcccc catagatctt ggtcatggag 300
ccaacccac gccaccccg ggtacaggg ccgnnggcc ggagcgctcg ggtgtagacc 360
agtctcangt agggagcagt ttttatgctg gccgctgacg cgtccaccat caggacttca 420
gctcccgaact tttgggaagc tgcaagcttg aactctgct gtgaatctta ggctctgcct 480
caggccggg tccgtgtaac acgaacggg acgtccgc 518

<210> 394
<211> 522
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(522)
<223> n is a, c, g, or t

<400> 394
gcacgaggga ttcaaaaagt aataagcaac cttttgaacc tatgattatt tatgcacact 60
tctagttttg ttttgatatt taagaactgt tgatcatcta aagtttctat gcacaaagca 120
ctggcatctt caagcaattt aaaatttgag aatatccatc aaaaattctt accttctgga 180
gatgactttg tcacatatag agttattgaa taagcatggt gtgcacctgg aaccaacata 240
gggctgtagg tcaattatac tttcaaaaaa aaaaagttct tgccttcctt attctcaagc 300

atcccaaatt ttgcaacctc cntttttctg gcccgaatca ccaaagaaga tggaccctgc 360
ccagcccttg ctttgagccc ctccctcctt ctctctcagc ttcttgagac gctatatgaa 420
tgaccacacn cacagaaaaa cactggtttt ccttaaggta gttccggggg gggggaggcc 480
cagaccagag gccggacaan acagaaatgg agaagacgnt tc 522

<210> 395
<211> 479
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(479)
<223> n is a, c, g, or t

<400> 395
gcacgaggca agtctctaca ttgttttctc aggcaggctc tagtattttt aggggcaggg 60
tcaatcgaaa ttgacccttc agattagtca atccaagtta ctgacatttc cagtattact 120
tagtattttt ttgtgttatg ttggcgagta ggcttttcat atttttatac aatgaaaaaa 180
atatagccct tgggtgtatc tctaacagaa tgtgtctatc gacatttact agcacaaact 240
ttcagttttg atttcatcaa actctacttt aactgaccca tattattctc ttatcgcaag 300
acttagtgag aaagagaaaag cagttctgac catcggaag gcctgccagc tgctttgatt 360
ataggggctg ccggtccagg acgntggcac aaaccacac acacagagac aggccctcgga 420
tggagaagga naagacaac aaaacaatac attgttaggc tacaggaagg aaactacgc 479

<210> 396
<211> 395
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(395)
<223> n is a, c, g, or t

<400> 396
gcacgaggct tcaccgtctc tgccatgcac gggaaacatg ggaccaaaaa gaacgagacg 60
ttatcatgag ggagttccgc tctggctcta gcagagtatt gattaccact gacctactgg 120
ccagaggtat tgatgtacag caagtttcct tagtcatcaa ctatgacctc cccaccaata 180
gggaaaacta tatccacaga attgggcgtg gcgggacgtt tcggccgtag ggtgtggcta 240
ttaacatggt gacagagagg acagaggact ctcgagactc gaaacctcta cacacctctc 300

tggggaatgc cctcatgttg ctgcctctct gggggggctg ttggctccta ccacagccgg 360
 ctgaaacctg gggggcgagg cgcagggang gggga 395

<210> 397
 <211> 405
 <212> DNA
 <213> Bovine

<400> 397
 gcacgaggat tgatcagagc attgagcaat acaatttaat tcaactcccc tccctttccc 60
 cctctccaaa agatttggaa tttttttttt tcaacactct tacacctgtt gtggaaaatg 120
 tgaacctttg taagaaaacc aaaataaaaa ttgaaaaata aaaaccatga acatttgcaa 180
 aaaaaaaaaa aaaaaactgg agggggggcc cggtagccaa ttcgccctat agtgagtcgt 240
 attacaattc actggccgac gcttacaacg tcgagactgg gaaaaccctg gcgttaccca 300
 acttaatcgc cttgcagcca tccccctttc gccagctggg cgaatagcga agaggcccg 360
 ccgaccgccc tcccacagct ggcagccgat gggaaggcaa tgggg 405

<210> 398
 <211> 535
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(535)
 <223> n is a, c, g, or t

<400> 398
 gcacgaggat cagccgctcg gtgaccgtca cagggcctac ctgatgcaga agatgaacct 60
 gtcgctcaac gatgcctacg actttgtcaa gaggaaaaag tccaacatct caccacactt 120
 caactttatg gggcagctgc tggacttcga gcggacgctg gggctgagca gcccggtgtga 180
 caaccacacc cccagcgagc agctctatct ctccacacct accaaccaca acctgttccc 240
 actcaacacg ctcgagtcca cgtgaggccg ggggcactgg gcgatgggct agcccctccc 300
 gggccccccac agggcccgcc ggcagggccc cagcctgccg cctctggccc gaggaccag 360
 actcaccgtg ccgggtgagc tccctcaggt cccacaccgg cctgcacggc agactttcga 420
 gggccgagcg acagacacag gcttggagtc ctgggcctct ctgnccagac ctcttctgtg 480
 agctcagcgn tgctgttttt aagacaccac gacggttact ttacttgagc aacct 535

<210> 399
 <211> 505
 <212> DNA
 <213> Bovine

<400> 399
 ttggtgcagc gcctctcgtc ttgcaggctc tcttagcttt cgccttttcg cttccggaaa 60
 catgggcctc cgggtgtggct gtctctgatg gggatcatca aagtgttcaa cgacatgaaa 120
 gtgcgtaagt cgaggacacc agaggaagtg aagaagcgca ggaaggcggg gctctttctgc 180
 ctgagtgagg acttgaagat ttttatcctg gaggggggca tggatgacct ggggggtgtc 240
 gtgggccaga cggtgacgac ccctttgccc ccttgtcaag atgctccaga cagggtgtgc 300
 gctcgccctt atgtgcacct agaaccaga agcggagggg gcctgtgtct tctctggccc 360
 cgcgggcccc cctagacaat gacttgcgct ccagacgctt atagagctgc ggggtcaactg 420
 attacagcca cgctcagggg gcaaccctcc cctccgaaac cgggcacctc ctttccgcgg 480
 agcctggggc ccacccctct ggctg 505

<210> 400
 <211> 615
 <212> DNA
 <213> Bovine

<400> 400
 cggatcccc ggctgcagg aattcggcac gagggttttc atgacctgct atcgcagctg 60
 gatgatcaat acagtcgctt ttctttggag aataattttt tattgcaaca taacataagg 120
 aaaagcaagc gtaaccttca ggataatttt caggaagacc caatacagat gtctatgatc 180
 atctgtaact gtctgaagga ggaaagaaag atcttggatc atgccagag aatcagccag 240
 ggcagtgctg ggaatatcca gagcactgta atgttagaca aacagaagga gcttgacagc 300
 aaaggcagaa atgtgaaaga caaagttatg agtattgaac atgaaatcaa gactctagaa 360
 gacttgcaag atgaatatga ctttaaattgc aaaaccttgc agaacagaga acatgaaacc 420
 aatggcgttg caaagaagca ccagaaacaa gaacagccgt tactccacaa gatgtcctaa 480
 tgctggacaa tggagaaagg agttgtccca aaaaatagag tggatgaatgc cactgactac 540
 ccagagcccc attatgatga ctgggggggg aacgggacag cgaggcgggt gggggcccca 600
 cgctgccgtt aatgt 615

<210> 401
<211> 558
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(558)
<223> n is a, c, g, or t

<400> 401
tgggtttttt tttttttttt aattgttcaa gcttggttta ttttgccatg tgaattttta 60
aaaaattgat aaaacactag gaactaattc acaactcttt ctaccctctt tttatgtcaa 120
aaatacaaat gactatccat tgcataatcag gagaaattaa gctttttaca gaacagggtg 180
gaagagaaaa ctataggtga taattaataa gaatttaaga atatattttc cataaaaaaca 240
acaaatgaga acctcttaca taaaattcta aatacatgct aaatatatta ggaaaaacaaa 300
catattttgg acattgttat acatgcctat aaaangagtt ggggctgtta aaaaactaat 360
aaaatgctac taccanacta tatacaaaac tcttaaaact agttttctct tacatatggc 420
tctgaatatt tatgacacaa actattcacg aacagacggg atcattgaga tgagcaaatt 480
aaattattcc cggaaaaaac ctcatgttca ttttcctatt aataagtgt aatactggcc 540
atcgtgacgc ataaaaag 558

<210> 402
<211> 421
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(421)
<223> n is a, c, g, or t

<400> 402
ggagagtcgg tgggatctct ttacggcctc tggactggag gccgagcccc cgcccgcggc 60
cgagccccgc gcccggcgtc tccggcgggg tgctctcgc agtttcctgg cttggaagcc 120
atgggaacat ggcgaggcag cgggtggtta acgggaagga cggagactgt tagcctgtga 180
acgaaagcga gagtgagccg cctcacgctc cggaccaaga gtgatcttga acttgtggct 240
gctactagat ttttgccac acctcctcgt atgctgoggc ttctccatgg agtggggcca 300
gggtgaccgg ggacttgccg caagtcagac ggctgcaggt cacagcagtc cagnctgtcc 360
acctttgagc gcgggcgcat gtccttccca ccccgagacc ccgctggctt gacccaaaac 420

g

421

<210> 403
<211> 328
<212> DNA
<213> Bovine

<400> 403
tctggttcgt gttttttttt ttttttttta atttactaag tctcctttat ttttgttacc 60
aataataaaa catttgggag agatttgtaa aaaccaggcc agcccagggc actgagatac 120
tgggacaggg tatttcccat gagcattcct tgggtgggggt caggccgtag ctctggctcc 180
attcggtttg gtgggctggt gcctcgcccc cctttgctgc cctgtagaac acacgggggg 240
gactgggggc gggcaatgga tccccttgcc ggtccttgcg cccggcttct ggggtcctca 300
gctgacctcc ctcgtttcgt ttcggggg 328

<210> 404
<211> 498
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(498)
<223> n is a, c, g, or t

<400> 404
ggactgtgga gaagggaag gacccaagg gcccggagg gtgaggagtc ggaggaggag 60
tgggctccag tagagaaaat caagtgcccc cccatcgga tggagtcaca ccgcattgag 120
gacaaccaga tccgggcctc ctccatgctg cgccacggcc tgggtgcaca gcgaggccgg 180
gtcaacatgc aggctggcga cactgaggac gactactacg atggggcggtg gtgtgctgag 240
gatgactccc aaccaggga tagaggggac acgagaagac cacaattcac agcgccacac 300
caggccggac tccgcatcat gacatttga cccctctcgg ggctcacacg acgcagcggg 360
ggatgacaca cgctacagaa agcttcaggg acggatagac cgccggcgac gactccggcg 420
naggccgtca tccacacctc ccgaagagcg gcgcgcgagg cggggccggc ctgccgtcac 480
gcgaggggac cggccgct 498

<210> 405
 <211> 542
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(542)
 <223> n is a, c, g, or t

<400> 405
 taggcaactc tatcaaacgc ttactaattg gaagcctctt cgcaggatac atcatttcca 60
 acaatattcc tccaacaaca attccccaaa taactatgcc ctactaccta aaaacaacag 120
 gcctaattgt tacaatccta ggcttcatct tagccctaga aatcagtaat ataactaaaa 180
 atctaaaata tcactacccc tcaaacgcct tcaagttctc aaccttgcta gggatatttc 240
 ccacaattat acatcgcccta gctccataca taaatttata aatagccaaa aatcagcatc 300
 ctgcctctag acctatctga ctggagccat cctacaaaaa ccatctcact cgcccaataa 360
 aagctgtacc tggncacaag caaaagactg atcaacttat tccttccttc tatcacatcc 420
 tatagatatc tattattaca gagtattcat ataccacaca cataaaagac accatacata 480
 ctacagagct actgtaagcg agtcttgcct tactaagaca gatccgttat aatacatcct 540
 an 542

<210> 406
 <211> 100
 <212> DNA
 <213> Bovine

<400> 406
 tttttttgcc agccacttct accggcagat tgggaggcga gcgctgggtg tggaacatca 60
 ttctcaccac cagtctcttc tctgtgcctt tcttctgac 100

<210> 407
 <211> 335
 <212> DNA
 <213> Bovine

<400> 407
 gggcacgagg cggttggttaa cctgggggtat gttgggtttcg tggagatgcc catgagtgtt 60
 ttatttcacc tggatggccag agctgaaatg gaacttattg aaaagtaagg tgtaagctta 120
 gatggaaaga agatcttggt aataggagcc catgggtctt tggaaagcca ccctacattg 180
 tgtgttccag agaaaagga ccatgacaat gagctaccag tggaaaacac ctcagctgca 240

agacaagcta caggaggctg gtcttgaggt cttgggctca cccaagccag aagagatccc 300
 ctttcttggt tcaacgggaa ctactgttta aactg 335

<210> 408
 <211> 438
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(438)
 <223> n is a, c, g, or t

<400> 408
 gcacgaggcg gatgtcaacc tggggaagtt ggtccgagga gatgcccatg agtgttttat 60
 ttcacctgtg gccagagctg taatcgaact tcttgaaaag tcagggtgtca gcttagatgg 120
 aaagaagatc ttggtaatag gagcccatgg gtctttggaa gccaccctac aatgtctgtt 180
 ccagagaaaa ggttccatga caatgagctc ccagtggaaa acacctcagc ttcaaggcaa 240
 gctacaggag gctgatattg tggctcttggg ctcacccaag ccagaagaga tccncctttc 300
 ttggattcaa ccgggaacta ctgttttcaa ctgttcgcat gactttctat caggggaaggc 360
 tgcattgcatt tcttctggcg tccatggat tagcccccac gccaatatgt ggntctcctt 420
 gctgctgctc tgcaata 438

<210> 409
 <211> 220
 <212> DNA
 <213> Bovine

<400> 409
 gggcagcagg cgtgtttttt tttttttttt ttgtactgct caacttggtg cttatgaaat 60
 gatcattacc taatgggtcca ctaaattttac atattcagga aattatatat agaatactgc 120
 aaaaacacag tagaagactg aagggtggccc ggttcagctc atgaaatccc ttcactccca 180
 agcatgttgt cttttgaact ccaaagtga ctggctggac 220

<210> 410
 <211> 425
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(425)
 <223> n is a, c, g, or t

<400> 410
 caaagagctg ccccatccg agttcctgca agtgggccga gggccacgtg gtctgggggc 60
 tgaacgtggt cgctcccca gcgggggcgg gccggtgcag ggccgaccgg ggttcaccaa 120
 ggatcgcccc gggtcagtgg atcggcaccg gctgggccga ggcaccacgt ggtccggggc 180
 ttgatgctgg tccaacctac ctagacatga ctttcacctt tgtgcgggga gcagggacct 240
 gtccgcgggg gatccacacg ctgggcccgg gagttcgaca tttaccgaga ggtgggcggg 300
 gagcctgtgc cctgtgccag ggacgattcc agcaacggct tccccgtgcc cagcatgggc 360
 ccagcccca cgngcacccc accagaaccc aaaaccgatc tgcgtntctca cgctgaccgc 420
 agacc 425

<210> 411
 <211> 473
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(473)
 <223> n is a, c, g, or t

<400> 411
 tctcgcgaga tccgcctcct caataccaag cgctgtgtg tggcagagcc ggggtgagac 60
 gaagagacaa tccttcccag ccgccaggat aatcaagagt tttggccgga ctttcgagca 120
 cacaccgaga tagtgaggag ccagacgaaa agcacagact atggcggctg aaacggatta 180
 ataaggaact tagtgattgg gccgcgacc ctccagcaca atgttctgca ggtccagggg 240
 ggatgatatg tttcattggc aagccacaat ttgggacctt agacagccca tataggcggg 300
 gtattctttt gacattcatt tcctacgaca cccctcaacc ctagntgcat gacaacagaa 360
 ttanatcaa tataacgnaa ggcgcattgt ctgaattcag accagtgttc ctgttacatt 420
 taagtctttt cattgttatg ttggaccaac caagacccta ggcggatgcg act 473

<210> 412
 <211> 517
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(517)
 <223> n is a, c, g, or t

 <400> 412
 gcacgaggca gagagtcata aaagggttttt agcagaggag tagtcctttt agaacaatga 60
 ttccgacagt agtatatgga aatgggagca gatacagatt taggcaagga ggccagaaga 120
 cgatctcaac agtagtaaca ctgataagag gtattggtgg tctagattag agtaaaatgc 180
 aaaactaagg ttagatctat taaaatacat gactcaaagg aaaaattgaa gacctaaat 240
 tggcttcaat ctatttaaag aaaaaaaaaa aaaaaaactc gggggggggc ccggacccaa 300
 ttggctctag tgagtcgtat acaatcactg gccgccgttt acacggggng actggaaaac 360
 ctgcgtaccc acttattgcc tgcagcacat cccttcgccg cgncgtatag gaagagcccg 420
 ccgtcgccct tcacagtggc agcgatggga tggagatgta ggtattttgt aaatgcgtta 480
 tttgttatag tctttttaca atgcgacgca atcttta 517

<210> 413
 <211> 489
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(489)
 <223> n is a, c, g, or t

 <400> 413
 tttatttaaa cctaattccc ccctttttgc cttttaaaga gccaatatcg ttttaaggttt 60
 gtttggtttt tttttttttt ttccaaaatg agagggaaat gggcattttc tgtgttgagg 120
 tgggacttgt agctttgact gtccttccg ggcatctcag ggacttcgct gctctttttt 180
 cctaggaacg ccccaggttt ccggtgggaa gactctcggg gcccgggatt cctcggggcc 240
 gcccggccag ccggcgcccg ccagtgcctc cgccgccac gcgagtctgc tcgacagagg 300
 cggagcgtgg ccgagctcag gctgcagctg cggcagatgc gacagctcca gtacggcggc 360
 gtccccgggn cggngncct gaccgggctc tccccaccgc tgcctccgca ccccgcccac 420
 acatgtgcgg tggctgcttg cgcatttgt acgatgatga ggcggggcag gcggccaccg 480

gctctccta 489

<210> 414
<211> 75
<212> DNA
<213> Bovine

<400> 414
aaatatatat attttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttctt ttttt 75

<210> 415
<211> 523
<212> DNA
<213> Bovine

<400> 415
tggttttttt tttttttttt tttttttttt tttttcattt cccattttatt tttggttttg 60
ggggcaatgt gatgttttaa aaatgaaaaa aagaagaaag atgaacacaa tataaatttg 120
aattgtaaaa taggacaaaa tcaagaagtg gggaagcaga aggggggaaag gaggggatggt 180
tgccaaaaga ttgaaggggc gctggggcct gtggggggaa tgacgtgtgg ggggcagcac 240
atacctttcc atataaggac aaaaggggtt gatccgtctc attttttttt gttaagaaaa 300
gagggggggg ggggggcttt ctggggactt aagaaccaag ttctttcttg gtttcttgac 360
ccccttttca aacagagaag gcgggattca cgcttgtaga agagataaga ggaagagaag 420
aatccgactg aggggggggc agaactggag gtaaggctag gaagaaggga gagatgaaag 480
aaataaagtc acaccgccag cgggggacgg gaaccgcacc aga 523

<210> 416
<211> 159
<212> DNA
<213> Bovine

<400> 416
caccacctca acatcttttt tcttttttct tcaaaaatct tgtgtttttt ctttaccctt 60
tatatttatt tccttttagga tgtgtgggtg tttttttttt ttttttttct atttatcccc 120
gccctttctt ttcatttttt tcctttttct tcccatcct 159

<210> 417
 <211> 474
 <212> DNA
 <213> Bovine

<400> 417
 gcacgaggct gccctctggt ctgcctcaga tccaagatgt ccagtcccct ggagcaggcg 60
 ctggctgtga tggtcgccac cttccacaag tactctggcc aagagggcga caagttcaag 120
 ctgagtaagg gggagatgaa ggaacttctg cacaaggagc tgcccagctt tgtgggggag 180
 aaggtggatg aggagggcct gaagaagctg atgggtgatc tggatgagaa cagagaccag 240
 cagggggact tccaggagta cgccgtcttc ctgcctcac acgatcatgt gcaatgattt 300
 ttttcagggc tcccagcac gggcctgatg caagcttggg ctccctgctt gggctcttctg 360
 cccagaagac tctttatctt tttttttact cataactttt tgggtgttgca ggaaaaaaaa 420
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaactggg ggccggcccc atcg 474

<210> 418
 <211> 557
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

<400> 418
 tgggtttttt tttttttttt tttttatctt aaatatacag taggaaacat ttattttaac 60
 acttctaaaa gatatttctc catgcctgat gatttgatat aaaaatcaaa cccatcatac 120
 tttcccatc agtctctcta catcaagggc aatcagaaat ttgtacaaca tgaatatctg 180
 cttctgaaac aaaaattaca aattaagtga taacaaaaat acacaaatca actggaccct 240
 aaacaaattt ctaatgaatt etttccccca cccctcaat cacctagagc ttctttcttc 300
 agcctcatte tgctcctttt cctttctttg cttggccatg aacttctctg tattttgctt 360
 atgacgtgta ctcttgctgg atttgtcttg cttttctctg agtagaagag ggacaatgga 420
 cagaggatcc agcctcgnac agaagtctaa tcttaggaca cagggccacg actcctgagg 480
 cctcatcttt gcgtctggtg gtctgatctt atcaatctca ctatggaggc ttctcttctg 540
 ttcacgacac tttcgag 557

<210> 419
 <211> 412
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(412)
 <223> n is a, c, g, or t

 <400> 419
 ttttgtttcc caaatgtctc tccagactgt ctacatctcc gctacaatca cctgagtacc 60
 aactgtgtca tctctcacca tttgtatctg tctccgtgca atccatcctc cactagagcc 120
 agaatgttct ttccaagata cagatgtcag ctggccatcc tccatcataa acccttcaat 180
 ggcactcact gctcattaag taaagacatt ctgccttggtg gcccttgcta ccctctgtga 240
 ccttctctgc caccatgggt ctcccagctc actcccagag tctcagagtt catgttttcc 300
 atgtgacctc ctgcacagaa cctctgccag tgctctttat cccctcttca cctgcaatcc 360
 aagcgctact tcttcagaaa aaaaaaaaaa acaaccctt acggcgntgc gc 412

<210> 420
 <211> 557
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

 <400> 420
 gcacgaggcg ctgactattc tcaaccaacc ataaagatat tggtagcctt tatctactat 60
 ttggtgcttg ggccggtata gtaggaacag ctctaagcct tctaattcgc gctgaattag 120
 gccaaaccgg aactctgctc ggagacgacc aaatctacaa cgtagttgca accgcacacg 180
 catttgtaat aatcttcttc atagtaatac caatcataat tggaggattc ggtaactgac 240
 ttgttcccct aataattggt gctcccagata tagcatttcc ccgaataaat aatataagct 300
 tctgactcct ccctccctca ttcctactac tctcgcac cctctatagtt gaagctgggg 360
 caggaacagg ctgnaccgng taccctccct tagcagccaa cctagccatg caggagctca 420
 tagatctacc atttctctta ccttacagag ntttctcatt tagagcatca ctcatcaca 480
 ttatcactaa gccccgcatg ccataccacc cttgttgaga acgaatatac gcgactctct 540
 acttgtcttt tgcgcgc 557

<210> 421
 <211> 557
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

<400> 421
 gcacgaggct caaccaacca taaagatatt ggttaccctt tatctactat ttgggtgctt 60
 gggccgggat aggaggaaca gctctaaacc ttctaattcg cgctgaatta ggccaacccg 120
 gaactctgct cggagacgac caaatctaca acgtagggtg aaccgcacac gcatttgtaa 180
 taatcttctt catagtaata ccaatcataa ttgggaggat tcggtaactg acttggtccc 240
 ctaataattg gtgctcccga tatagcattt ccccgataa ataataaag cttctgactc 300
 ctccctccct cattctact actcctcgca tcctctatag ttgaagctgg ggcaggaaca 360
 ggctngaccg cgtaccctcc cttagcagca acctagccat gcaggagctc atagatctac 420
 ctttttcttt cactagcaga gtttctgatt ttagagcatc actcatcac aatataacaa 480
 agccccgcat gccatacaac cctctgtgtg atcgtatata cgcgactctc tcttgctctg 540
 ttgagcggta cagctta 557

<210> 422
 <211> 443
 <212> DNA
 <213> Bovine

<400> 422
 ttggaattag gcacgaggac ccacatacct tcaaaagaaa acgaggtgct gaccttggtt 60
 gtgctcttcc tgacggggag ccaggctcgg catttttggc agcaagatga cccccagtca 120
 tcctgggatc ggggtgaagga ttttgccacc gtgtatgtgg aagcaatcaa ggatagaggc 180
 agagactatg tggcccaatt cgaagcctcc gctttgggaa aacagctcaa cctgaaactc 240
 ctggacaact gggacaccct ggccagcacg ttgtccaaaa gcgtgaacag ctggcccaat 300
 gacctagagt tctgggacaa cctggaaaag agaccgctc gctgaggcag agatgccagg 360
 actgaaggag tgaagagagg gcagcctact gacggttcag agaaggacga gagtgaagatt 420
 acgcgaaggg ggcgtggcgg agt 443

<210> 423
 <211> 429
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(429)
 <223> n is a, c, g, or t

<400> 423
 gacaggatcc cttcaagaga agccgggtgc tgaccttggc tgtgctcttc ctgacgggga 60
 gccaggctcg gcatttctgg cagcaagatg acccccagtc atcctgggat cgggtgaagg 120
 attttgccac cgtgtatgtg gaagcaatca aggatagtgg cagagactat gtggcccaat 180
 tcgaagcctc cgctttggga aaacagctca acctgaaact cctggacaac tgggacaccc 240
 tggccagcac gttgtccaaa gtgctgaac agctgggccc agtgaccag gagttctggg 300
 acaacctgga aaggagaccg cggctcgtga gcaggagatg cacaggacct ggaggagtga 360
 agcagaaggc agccctcctg acgagttcca gagaggggac gagagtggag actaccgcga 420
 ggtggngcg 429

<210> 424
 <211> 535
 <212> DNA
 <213> Bovine

<400> 424
 gcacgatggc acttcctggc acctctaggt attgctggtc aggggggtgt gggcggcctg 60
 cctggccaga gcaggagaaa gaggcttccc tgggcttcgt gggccgtctg gtgaaccogg 120
 caaacaaggt gctttgggag caaggggtga acgtggcccc cctggctccc atgggtcccc 180
 ccttggaattt ggctgtgtcc cccctggcga gttctggaca ttgtagggat ctccctgtgt 240
 gctgaatgca tcccctggac gaatagttct cccctggcgc caagggtgac ctcggtgag 300
 accgtccctt ctggctcctt tgtgcttttg gggctcctgt gtccccgttc ctgttgcct 360
 gcctggtatg attgttttcg tgttttccgt gccttggtgt ctgtgtttcc ttttccctt 420
 tggctcgtgt cccgcttgcc ctagtccct ggtgaatgtg tgacaggtag agtcaaaagc 480
 ttaaggccac cttttctctg ctcatgtccc cccctccgt ttctggtgtc agtct 535

<210> 425
<211> 492
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(492)
<223> n is a, c, g, or t

<400> 425
ctggcactcc tggacctcaa ggtattgctg gacagggctg tgtggggcgg cctgcctggt 60
cagagagggga gaaagaggct tccctgggta cttcctgggc ccctctggcg aaccgggcaa 120
acaaggtcct tctggagcaa gtggggaacg tggccccctt ggtcccatgg gcccccttg 180
attggctgga cccctggcg agtctggacg tgaggagct cctggggctg aaggatcccc 240
tgccgagatg gctctcctgg cgccagggcg accgngnga gaccggcctg ctgacctnct 300
gtgctgctgc gctccggggc ccccgccctg tcggacctgc gcagaggnga tgtgggagac 360
gggctgttgt ctgctgtccc atgccgtgt gcccgcccc gtgaccagg cccgngaca 420
ggnggacagg acaggcacga gaataagtna cggctgttgt ctgagaacct gccttcgctt 480
ctggagagac ct 492

<210> 426
<211> 547
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(547)
<223> n is a, c, g, or t

<400> 426
gcacgaggcc cggccctcct ggacccccctg ggtccccag atcctcccag cggcggcgta 60
cgacttgagg cttcctgccc caaccacctc aagagaaggg tcacgatggg gggccgctac 120
taccggggct gatgatgcca atgtgggtccg tgaccgagac ctcgaggtgg acaccacct 180
caagagcctg agccagcaga tcgagaacat ccggagccct gaaggagac gcaagaacct 240
cgcccgacc tgccgagacc tcaagatgtg cactctgac tggaagagcg gagaatactg 300
ggttgacccc aaccaaagg gcaacctgga tgccattaag gggttttgca catgggaccc 360
gggagacctg tgntaccca ctcagccacg tgcccagagt acgttattca tcagaacca 420
gaaaaaggac gcggggcggg gagatgacgc ggtgcatcgg gttggggcag ggtcgtcctg 480

cgtagggctca ctgcttctgg ctgtggcccg cgctgcaaca tactacctca gagggggctc 540
tgtccgg 547

<210> 427
<211> 473
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(473)
<223> n is a, c, g, or t

<400> 427
gcacgaggca gaggtcttcc tggcttaaag ggacacaatg ggttgcaagg tctcccgggt 60
cttgctggtc atcatggcga tcaagggtgct cccggggctg tgggttcccg ctgggtccag 120
gggccctgct ggtccttctg gccccgctgg caaagacggg cgcattggac agcctggtgc 180
aggcggacct gctggcattc gtggctctca gggagccaag ggctgctgg ccctcctggg 240
ccccctggcc ctctggacc ccctggccca agggnggggg tacgaggttg gtttgatgga 300
gacttctaca gggcgccagc ccgctcaca cttcttcaac ccaggatatg aagtgtgctc 360
tctgatatct cacaacaatg agaccttctc tcaaggatta gagaaccacc gccagcggac 420
tgaaccaccc ccacagacag ggtctctgtt gactacagag acttgagctt aaa 473

<210> 428
<211> 527
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(527)
<223> n is a, c, g, or t

<400> 428
ctttaccag cctatctcag aagttgtaga tgaagtaatt cagaattgtc ctatcgatgt 60
cagacgtcct ctctacaaga atattgtgcc tctctggagg ttcaaccatg ttcagggact 120
ttggacgtcg gttgcaaaga gatttgaaaa gaactgtaga tgccaggctg aaattaaaga 180
ggaattgagg ggtggtagat tgaagccaaa acctattgat gtacaagcca ttacacatca 240
catgcaacga tacgcagctt ggtttggagg atctatgctg gcttccacac ctgcgttcta 300
ccaagcatgc cacacaaaaa aggattatga agaaattgga cctagcttcg tcgccacatc 360
cagcgcttgg gtcatgtcgc aaaatggctt catagtttgg ggtagggggg gaggagaaaa 420

gactttctgtt acctgctgct ggtggctgct ggcacctgac tgatcataga caacatcata 480
tcagatatatt atagatacac agcgaagaag aggcaaagat agngttt 527

<210> 429
<211> 543
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(543)
<223> n is a, c, g, or t

<400> 429
ttgttaaagt ggcctacagc accgagggcg ccaattccag ttcattccagg ttgcagggcg 60
ggcaggagat aagatatatta taggtaattgt gaacaacagc ggcctgaaga ttaacctgtt 120
tgataccccc ttggagacgc aggatgtgag actggtaccc atcatctgcc accgggggctg 180
caccctccgc tttgaactcc ttggctgggg agttgaatgg atgcactgaa cccttaggcc 240
tgaaggataa taccatcccc aacaagcaga tcacagcctc cagctactac aaaacctggg 300
gcctgagtgc ctttagctgg tttccctact acgcacgact ggatatcagg gcagttcaac 360
gcctgaccgn ccacaccaac aggcctctga gtgctgagat gacctggctc cagagcggtc 420
acggcatatc accagggccc ggacttgccc atcattgtgc tgctcagggg cttgngtgtg 480
nggaccgctg gacagaccgg gccagagag atttctgtac tgacatatcc aaaagaaatt 540
gac 543

<210> 430
<211> 494
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(494)
<223> n is a, c, g, or t

<400> 430
ttgttttggg ttctttgaat tcctagagac acagattctg atagagaaaa ttatattaag 60
ttatagaaaa ctttacagga taatagcttt atattcattg cacacttacc ttgaatagtc 120
atggcgttat catagtatca ttagtatagt tatctgtatt cattaattgg cattttatgg 180
gtttcaggta gacatgacat gacatgactc taacaaaatt aaaagaagta gggcttggtc 240

ttttacgaat tatagtttta ttttccttct tggtatataa gaatttggtta agccagcata 300
 ttttagattta tttgtgcaga tgctgntaat gtctggataa ctatctttac tttatggggg 360
 gtaaatatgt gttttgggtg atgtgtggca gccactggta tgtgtgtatc tgggtccatt 420
 tacagtagac acattctctg ttttgtactt cacagctaaa tttttgggtta tttcttacca 480
 ctgctnccan atta 494

<210> 431
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 431
 ttaacaccta caaaccttcc aactccccac tctacgcaaa aacagctatc tcatacgccc 60
 tcattaccag cataattccc acaataatat ttataaact gagggcaaaa actaattatt 120
 tcaaactgac actgactaac catgcaaact cttaaattat acctcaactt taaaatagac 180
 tatttttgaa taatatttat cccaattgcg ctattgggtca catgatctat tatagaattc 240
 ttaatatgat ttatatactc agacccaat attaacaaaa tgttcaaata tcttctccta 300
 ttcttcattt ctttgctgtg ccttggtacc gcaaacaacc tcttgcggtt ttgattggct 360
 gaggagagtg ggatatactt ttttgctcat cggtgatgat gcggcgagga gagcaaaacg 420
 gaggcgtcag catgctgtta tcggtcgggc gttgttggtg tgnntagatg ttcgtaaatt 480
 cagtccggac ggcacgatct ttcttaccaa caccaactcc tgggtgtctgc tgttgacggt 540
 atcgacattg gctc 554

<210> 432
 <211> 563
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(563)
 <223> n is a, c, g, or t

<400> 432
 gcacgaggag aatcttttta accaaaataa tgcagcagga gatgcctgtg ttccagggtg 60
 attgaaagcc aatgagaagt tatctgaaga gagagcacia gatacatact gtgatgggtc 120

acctttacct gaagatttta cagagtctac caaaatgaat ggctgtgaag aacattgtga 180
 agaaaaaggt aaaagtgaag gcttaattca aaagacagaa gaaaagaaga ctgaggatga 240
 tgaaataaca tggggaagtg atgaattgcc aatagaaaca acagaccatg aagattccaa 300
 taaagagcat ccctttctga caaatgagga actcaccaca ctcccatca tcaaagtgtc 360
 tccctccgag agtacactgc tggccagctg cagtcagnca tgcggtgttg cggggnttac 420
 tcgatcaggg atccatctag gagctggaga atctcaagaa taaaactttg atcatgtcta 480
 ttgacagacg aggaaacaga ggagaacgaa taaatatacg ccctgacgct cggngcctct 540
 ggggtgagggg ntttcacgag ctc 563

<210> 433
 <211> 492
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(492)
 <223> n is a, c, g, or t

<400> 433
 gcacgagggg gggctcagtc cgcaaccgcc gccgccgagc ctccgtatcg gtgctgggag 60
 gggccgccgc cgagacagcc gtgcggggcga gcatccccag gcagcacatt aagagtgggt 120
 gatagcgggtg tcccgccctc accgaatata tcccgttctg cacatatgca ctgggagggc 180
 cttccagcta taaagtaggc accatggctg agaaggctga ctgccactac tgcagagaca 240
 acctgcgagg ggaagaagta acgtgcagaa agacggccac cactgctgcc tcaagtgttt 300
 cgactagtgc tgccccaaca gntgtgtggc agtgcccgcg gcccatcggc gccgactcct 360
 aggagtgcac tacaggaacc gctacttgca ccaacctgct tgcgctgttt tagtgctccg 420
 cccttggcag agagacttcg tgacaagaaa cagatcctgg cacaggcccc tcggagacaa 480
 cccaggctgg ct 492

<210> 434
 <211> 377
 <212> DNA
 <213> Bovine

<400> 434
 gcacgagggg ttaaagggtc ggaaacacat aaatggattg caatgaactt tccagatgta 60
 gtagttcatg gggattctca cggcaacagt cgactcattg gaaaagaccc tgagactggg 120

aaatattcaa ggcagaagga gaagaggggg acagaggatg gagatggggg ggaggcatca 180
 ccgagtcaat ggatatgaac ttgggcagac tccggagatg gcaaactccg accgtctgca 240
 ggccatgggg tggcgagagg cggcacatth ggggacggac aacaccaaca aagatatttg 300
 gagccactth taaattthaa tgatgctcag gtcattagta tgtgctaaat tgaggtecca 360
 gttaccaaat ggcgggg 377

<210> 435
 <211> 555
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(555)
 <223> n is a, c, g, or t

<400> 435
 tatgagagca gcaccttccc cctcctcctt tccacacctg caaactctth tgcttgggct 60
 gaatatttag tgtaattaca tctcagctth gaggggctcc agaggcaaat ccccgatta 120
 aaaggttcct cggttgtgaa aatatacaag agaaatcatg aaggcaacta tcatctthct 180
 cttggttgca caagtttctt gggctggacc atttcaacag aaaggcttat ttgactthtat 240
 gctggaagat gaggcttctg ggataggccc ggaagagcac tttctgaag atcctgaaat 300
 agagcctatg ggcccagtct gcccttccg ctgtcagtgc catctgcgag ttgtccagtg 360
 ttctgatctg ggtctggaaa atacaaaag acctcctccg ctactgcgct gcggaccgca 420
 aaacacaaaa tactgagaca aagatgagac ttagaactga gacctctaca ctgttcnate 480
 acaacaaata gcaaacagcc tgggcttgct cttggtgaat ggacactatc ttccagataa 540
 cgaggatgca gaaaa 555

<210> 436
 <211> 504
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(504)
 <223> n is a, c, g, or t

<400> 436
 gcacgaggca accacgtgct gaagggaag gacgccagct gcctggcaga acagtgggtc 60

tggcaagaag gggggacaca ggccgccctg ggggagcaag aaatccaaga agaagagcgg 120
 cggggccaag ggcttgggcg ggggcagcag gaaacagagg aaggagctgg gcgacctga 180
 cggagacccc agccccgagg aggacgaggg catccagaag gcttccccgc tcacacacag 240
 cccccctgac gagctctgag cctaaccag tggcttttgc tgactgagag cctgagctgg 300
 gagcccaggt gtctgggccc cgggctgca cagatggagc agcgaggcc tcagcgggtgc 360
 ctgcctggcc gtgcgcctc ctgcctgga actccagcct ggggnaactt natcagttcg 420
 ggcaggcggc tgcttttct ctgccagcg tcttctgac caactcagcg ggcccagatt 480
 cagatgccag actcatgtga ctgc 504

<210> 437
 <211> 449
 <212> DNA
 <213> Bovine

<400> 437
 tttcagccat cccttgggtt gaagacaagc tcaccaactc cccacacgcc caccaccccc 60
 ctaccaact gggcagccct tcaacgagga tggatcgag ggactgaaac atcttacctg 120
 ttctgtctg tctggccgca gggcttagga gccccagga cacagcatga gtgggccttg 180
 gaccgctacc ccgctatggg cctgcagact tggttccaaa ggcttggcg gacagaccgc 240
 ccagtcacca cttcaccct agcttggcca cccagggcg acaaagagca gcagggggcg 300
 ggggcagccg cgcggaacaa gccggatttc ctggctcgcg ctggctctgt ttccctgcgc 360
 tcccccccg ccgtgtgttc cgccgagctg acgtctaacg gggagggtag aaggacaacc 420
 cgcaaggtgt gggattgaag gaatgtggc 449

<210> 438
 <211> 553
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(553)
 <223> n is a, c, g, or t

<400> 438
 gcacgaggt cagtgttagc atcaacacca cgctccatc taccattgag ccttgcattc 60
 tgccatcccc atggcaagga agcctttctc tgctcagatt cctcctacc ttgaagactt 120
 agctcaaaat gcaacacctg tatctgcttc agctcattc atcttctcaa ctcccttata 180

tgtttgtact tcttacttga atacttaatc ctatatgctg gtgaggggta ctgagtctct 240
 tctatgtctc agtcatgtct tatcaacaaa gctgcaaact taccaagaga cagatcactt 300
 ccactccccà ggggtgcctat cacagggtttt agtagcagag aggagctcaa atccactggt 360
 gatttcatct ttgttccatt tgctattatc agttcattta acaaagagna gtatgctcta 420
 tacctgcttt tcaaaagaaa ctaaatacaga aatattataa acagagaagg tcatctgttg 480
 ctcttggcag agcctgacag ncntaaacga aagctcangt cccaggaaca tggccacggt 540
 cgggggagcg tct 553

<210> 439
 <211> 543
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(543)
 <223> n is a, c, g, or t

<400> 439
 ggaagatgta tggagacatg gcctaaagcc agagacaggg agaacacgtg aacatttttag 60
 gctgtcactt gaatcgattc acatctcatt tttgtgtaca cgtgatttca ggggcacaag 120
 ttattttaa atctgtgttct aactggggaa aagaaaaatt cccaccaa at tcaaaatact 180
 gtgccatgtg atattcaaac caatagtccg ccaacccag aactgggtt gaagaaattg 240
 agacttgatc ataggactgt attagtgcac agcgccagca tgtatgctag gagcagggga 300
 ggagggcagc agaaagcctt gtatcttttg ggggngggag tgactgggtt tggatgtgac 360
 tgaaaagaaa acttagcatg ctctgtctg ccttagctcc agcacgccg tgtgcgcccc 420
 acctcagagc gagcagtcgc tctagcagac acaatcactt gactttgatc agacatgtca 480
 gaatagatct gcttaacgac gccggcagcg atgccacag caatnttttg tacgaattgg 540
 gnn 543

```

<210> 440
<211> 545
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(545)
<223> n is a, c, g, or t

<400> 440
aggaacgagg cccagctcta tgtaggcagg gcggggtgga gctcacctgc tcccatgctc      60
tggatggaca gcaactactc tacggggacc aggggcacaa gactcagcaa ctggaccacc      120
aggcaccccc ccaaccaga ggggctggag ttgggtcctg agggttccca ggaccaacgg      180
ctgcaaaaac cggatgttac aggaaggagg cctgcctcct cagggcctca gattctgaaa      240
tgcccagagg gagaggggtgt caagctgcgc tgtgagctgg gggcacggac cgggagagag      300
cgcgaatctg caactgcgtt gcgcgtgtgg gccaaaaccc tctacagcgg gagcaccagc      360
ctttagacgg agagtgaggg gggatgagcc ccgaaagcac tataaaactg ctcgacgggt      420
ccagagagct gcagggggcca ggggcaagga caaggagagc agcccgggtgc tcttgatcta      480
tctatctgcc atgcctccgt ccgtcgcctt ttacttaaaa tgattttaag ctcgtcgcgg      540
cgncct                                          545

```

```

<210> 441
<211> 463
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(463)
<223> n is a, c, g, or t

<400> 441
gcacgaggct ccctgtggat cctgttccac ttctgacgg ggcaaggcag gtcaggaagg      60
tgtagaccat cctcaggaaa gagccaaggc ccaggaagtc ctccaagcca tccggggggt      120
tcgtccgctt cttcttcggg tggcgagagg gcgctggcca ctttgggcag atggcctctg      180
gctccatgca ccgggtgggg aggctgaaca gcgccgtcct ttgggtcttg gccaaaccaca      240
acaaggtgaa cgctcgcttc gcaggcgccc ccagcgagga cccccaggtc cccaagaggc      300
agnggccacc ccgcgagctc tgggtccgcct gccacaatga actacgggca cgctgtgtg      360
ggacctgcac aacatctcag atcttgagac cactactccc cagcaaaact gctatacttt      420

```

ctttgctggc cggggccggg cgggggagga ggaggaggaa aca 463

<210> 442
<211> 516
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(516)
<223> n is a, c, g, or t

<400> 442
cctctcgggg gggccgctta aatgggtccc cgggtttttg ccgggcattt acccttcaga 60
aaacgagacc accaattcct ttctttcccg gctggggacc agccagngtt cctgcccacc 120
cagatgctgg tgaagatcat ggcagatatt gccagaggca tggagtatct gagtaccaag 180
agattcatac accgggacct ggctgctagg aattgcatgc tgaatgagaa catgtcgggtg 240
tgggtgtggct gactttgggc tctccaagaa gatctacaac ggggactact accggcaggg 300
acgcacgcc aagatgccgg ncaagtggat tggcatcgag agcctggcgg accgtgtcta 360
tccagcagag cgatgttggg gcttgggtga cgatgtggag atggcagcga ggcaaccctt 420
atcagnatgg agacaggaga tatgatactg gccaggaacg ctgagcaccg tgactgctga 480
cgacgacgcc gtgtcgtgct gggctaaccg cgacgc 516

<210> 443
<211> 472
<212> DNA
<213> Bovine

<400> 443
gcacgaggct accagtatgg attcaacctg gtcatgtccc atcctcatgc tgtcaatgag 60
attgcgctga gtctcaaaa caagaatcca aggaccaaag cccttgtctt agagctcctg 120
gcagctgtgt gtttggtacg aggagggcac gaaatcattc tcgctgcctt tgacaatttc 180
aaagaggtgt gcaaggagct gcaccgcttt gagaagctga tggagtattt ccggaatgag 240
gacagcaaca tcgacttcac ggtggcctgc atgcagttta tcaactcggg ggtgcactca 300
gtggaagaca tgaactttcg ggtccacctg cagttgagtt cacaaagctg ggctggagga 360
gttctgcaga gtcacgcacc agagagggga gcgcagcgca gatcaggcga cctgacacgg 420
tcgtgtgggg ggtgtggggt gcggacaaaa gtggcctgga agggagagtg gg 472

<210> 444
 <211> 508
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(508)
 <223> n is a, c, g, or t

<400> 444
 tttgcaagag agaagacaaa gcaaataaac tcaaagacaa gatgggcaag tggagagatg 60
 atggggaagg attggggagc tttgttctgc tggctcctct ggtctcagaa atgagaatta 120
 taattccatt caacaatgag aatggacagc agacattggg aaggagagtga gtgactgatt 180
 agatgagggg cacaaattgg agatgccagc aaacactaag tttcctctta agttactggc 240
 cttgaatttc agtggtagcc agccactaga gtggagtttt attctctatc cttattcagc 300
 tgggaagctg ggggtttggg ttgaaagagt tgaatttata taggttgtga ctttgccagc 360
 agatgtagcc accaatgaga gagagcaaata atgccaatag aagcttactt nttctgnagc 420
 ccgnggnctc tggatgctac tgttcataga taaccgcagc agaaagggaa ccgccccgta 480
 caggagctgg acgaatatgc tccgtcac 508

<210> 445
 <211> 485
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(485)
 <223> n is a, c, g, or t

<400> 445
 tggccggctc ccgcgggcgc tcccgcggcg ggctccctag gttagtgtga tctcaactca 60
 agagaaaggt ggggctatca tggcatctat ctgggttggg aaagcgaggg acaataagag 120
 attatgctgg ctttaaccca tcgggggatg ctgaagcgat tcgtaaggcc atcagaggga 180
 attggggacc gacgagaaaa cactgatcag cattctgact gagaggacga atgcacagcg 240
 gctgctgatt gctaaggaat atcaagcact atgtggaaag gaactgaaag atgacttgaa 300
 gggatgatctc tctggccact tcaagcatct catggtagcc ctcgccgcc caccgcagn 360
 gttcgctgcg aaacagctga gaatccatga gggcatggga caatgagatg cacgatcgaa 420
 atctaccact gacagcagca atgcagagac ggcacacctc tcacgacaga ggactgagat 480

ggata 485

<210> 446
<211> 555
<212> DNA
<213> Bovine

<400> 446
tttgtggcag gatgggcaag tgttgcggtc ttcgtactgc caggaagctc cgcagccacc 60
gacgagacca gaagtgggat gataagcagt acaagaaagc ccatctgggc acaggcctga 120
aggccaaccc ttttgggggc gcttctcagc ctaagggaat tgtgctggaa aaagtaggag 180
ttgaagccaa acagccaaat tctgcaatca ggaagtgtgt cagggttcag ctaatcaaga 240
atggcaaaaa gatcactgct tttgtttcca atgatgggtg cttgaatddd atttgagaaa 300
atgatgaagt tctggttggg ggatttgggc gcaaagggtt tgctggtggg gacattcctg 360
gggtcgtttt aggttggaag atagtcattg tttttttttg gttatcaaag caagaggaaa 420
gacaaatata aatttgtgat gaagacgatg aataattdtt ttacaaaaaa aaaaaatggg 480
ggggccggcc cattgctttt gggttggtta ttatggcggg ttaacgggat ggaaactggg 540
tccacttttg ttgcg 555

<210> 447
<211> 545
<212> DNA
<213> Bovine

<400> 447
accacggggg gcgttaaact agggatcccc cggctgagaa tggcacgagg gacattctac 60
cctggccgct gactcgggaa cctcaataac caaaccagcc gattcaaggg gccagggctt 120
tggtggggca cccgatccca cgggctgacc accacccctt cacggaagcc tcttacgaga 180
acctgcccac cattgccctg ggcaacacgg actctcctct gtgctatcgg gacatcggca 240
ccccgcgcca caacaagggg gcgcactagg ggggggtggg ggcgggtgct cgcccgggga 300
agtcacgcgc atgcggggca ccatctcccc gcgccccggg ggagggtgtc cgcctctctt 360
gtcagagagc tgagagaaga aaagaagaag ggagcagaga gagctgggcc agagggtttg 420
ggttgatggg tgctcgcttc tatttggtg gatgcgaggg acacgcctga gggcgcgctc 480
cggcacgag gcgactagag gagcgagctc cctgaacgcg cgccacgaca cccgaggaga 540
acacc 545

<210> 448
 <211> 24
 <212> DNA
 <213> Bovine

<400> 448
 aggcggccgc tctatgatac tatt

24

<210> 449
 <211> 528
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(528)
 <223> n is a, c, g, or t

<400> 449
 gcacgaggcc caaagacact gaagttttct ggaacaatgg cagaagttgg gtttgagagg 60
 aggagtgttc tgtcttaaag catgtggacc agaggtcagt agatgataga aacatgtaag 120
 tgtacatagt agtattgtca gatgtcaaag atgccaggat ggaggctggg tggggctctaa 180
 agtggcatta atgggttaat aaattgtcac ccctatcctc agttctatgg taggtgaaat 240
 gtacagttag tgtggggaga tgttggtgtt attgggtctt tttcttttac ataaagatga 300
 agatccacag ggttgatatg gttgagggag agagacagag agaagaggta cagagctgaa 360
 gggttgagac agggaggnaa ctgactcctt tggctataga tataggacga accctattga 420
 ttattacca acatcaagnn gatagcaaca aaagcggcgg gggggccgcc acaggtggga 480
 ccatgctggc tggcataaat taacagcccc tcggcgaggg acggcctn 528

<210> 450
 <211> 528
 <212> DNA
 <213> Bovine

<400> 450
 gcacgagggt ggggtcccc tgggggtggg gggcgggaga catctgggca tccagcccc 60
 ccaggctctc ttactctctc tctcctttcc tccatccaca ggtgatagtg aggtgcggaa 120
 gctggagggt gcgctgggag tacatcttcg agatgccagg cgtgggcaga ggctccgctc 180
 aggggagcac ggggtggttg cgggacctcc caacgccggc aaaagcagcc tggatgaacct 240
 gctcaggggt ggggcggggg cggggctagg ggcaggggag gggctggagc taagctgctg 300
 ggcttggtgg gtagggaggg gcctgggagg gtgaaaactg gccgggcccg ggggggccta 360

gggagggacc ctccattcca ccaccgctcc tctggccacc ccaccccggc cggagctggt 420
 catcggggccc gagcggggaca ccggagtctg gacccgggac tggcgattca cgctgtggga 480
 catggggttg gaggggggct gggcgggggg cgggccaaag aggagcga 528

<210> 451
 <211> 530
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(530)
 <223> n is a, c, g, or t

<400> 451
 ctccccccga gcgcgctct ggccgcaactg cgctcgccct gagctccggg ctctgctaa 60
 gccagcgccg ctgtcgctc cctccagtcg ccatcatgat catctaccgg gacctatta 120
 gccatgacga gatgttctcc gacatctaca agatccgggg gggggcggac gggctgtgtc 180
 tggaggtgga ggggaagatg ggcagaagga cagaggggaa catcgatgac tcgctcattg 240
 gtggaaatgc ctccgctgaa ggccccgggg cgaagggtgc gaaagcacag aatcactggg 300
 tgcngtgttg tcttgaacca tcacttgacg gaaaccagct tacaaaagag cctacacgag 360
 tactaaaaga tacatgaagg aatcaatgga aactgtacac acagacagaa gagaaaacct 420
 tttgacgggg ctgagacaaa tcagcacatc tgctatttaa aatatatttt tttgtgaaac 480
 atgatcaatg cgggtggttg tggctacgga ggtgggnanc catttgattt 530

<210> 452
 <211> 557
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(557)
 <223> n is a, c, g, or t

<400> 452
 cagcaaccgg cctgccttca tgccctccga gggcaagatg gtgtcggaca tcaacaacgg 60
 ctggcagcac ctggagcagg ccgagaaggg ctacgaggag tggctgctga acgagatccg 120
 ccggctggag cggctcgacc acctggcaga gaagttccgg cagaaggcct ccatccacga 180
 ggcctggacc gatgggaagg aggccatgct gaagcaccgg gactatgaga cggccaccct 240
 gtcggacatc aaggccctca tccgcaagca cgaagccttc gagagcgacc tggccgccca 300

ccaggaccgc gtggagcaga ttgccgccat cgccccagag ctcaacgagc tggattacta 360
cgactcccac acgtcaacac gcgctgccag aagatctgtg accagtggga cgccctggct 420
ctcttcccac agncgcaggg agcccctgag anaacgagag cagctgagac atcgacagct 480
gcactggagt cgccagcggg cgcccctcac actggatgan gngcatggag actcagacag 540
tcatcgccca catcagn 557

<210> 453
<211> 496
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(496)
<223> n is a, c, g, or t

<400> 453
caaaattctg aaagctgaat ttgttacata gtctcagtga gctcttaaca gaatagtgtg 60
tggtatttgg ggggaaaagc aaacctgaaa ggatttttca tgaatacttc ttaagcttaa 120
attatttatt tgtctatgtc caggcttagt tgtagcatgc gggatcattc attggttggg 180
gtgcgtgggc ttctgtctag ttgtggcatg tgggttcaat aattgtgggtg cacaggctta 240
gttaccagg agttgtggat cttagtttcc tgatcaggga ttgaacctgc gtgccctgca 300
ttgaaggtgg attctcgact gctggaccac cagggagtcc ctactgaaat attttgtatt 360
aaataaaagg gttggctggg ttccctctgc agggcccagg catcaattac aagacagcgc 420
ggggnngggc tggggcggcg ggggggcgga gtgaggacag ttagctggag gagtttggat 480
gggggggggg cgcgga 496

<210> 454
<211> 539
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(539)
<223> n is a, c, g, or t

<400> 454
ttctcctcgg gcatcacggg ctgcatcaag aacctggtgc tgcaactccgc ccggcccggc 60
ggcccgcgcc cgagccagt agacatgcag caccgtgccc aggcaggggc caacacacgc 120

ccctgcccct cgtaggcctt gcctgccccg cacggactcc tgggccgcac cccagccccg 180
 caacggcgac tatattatta ttaatattat tatgatgatg atgatgaata ttttgtaaga 240
 aaccgaggcg atgccacgct ttgctgctac tgcctggggc tggactggag ggtgggcacg 300
 tcacgccctc ccgccccac ccacaaacac acctgggcag agccacaggc tgtgggcaca 360
 gcaggttgca ccagagccgt gcctcggggg ccaccagaca cgggttaggc gcagtggctc 420
 atgggtcaga ccgccccaca cagaccccc agcaggctgc cgnctgtgtc agctgggcgg 480
 gccctattct ggagcgcatt ctcaccgcc tgcagcactg aaccacaaac cggagagga 539

<210> 455
 <211> 528
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(528)
 <223> n is a, c, g, or t

<400> 455
 gcacgaggtg gagaaggggg cagacctcaa gtgggggagc cacctgggct gaggtgcctg 60
 ggccaagtta gaccttgggc ctgaaggctt ctggtgggta gccggcccc tccccactga 120
 agcaccgagc tctaagaagt caaacacgtg ttgactcatt tgttgagaa attcagctca 180
 tgggcttcct gcattccagg gtgctggtat gccagaaatt ctctggagga gcaagcaggg 240
 aagtcttgtc ttaaagtaaa aatgctaata aaacatctct agaatctgct ccttcctttt 300
 caccacaca gccactgact aaattacctt ttgttctcat ttgctgaatt gccttggctg 360
 cttaattggc ttcnctgttt ttggtttctn cacaccact tcactgtgcc tccaatgggt 420
 tcagatgata ttaaaatgca nactgccacg ttctgccttg gttnccccac gctgcagatg 480
 aggcagatgc tagtgggcct ctggacctca gaacttgggc tnatgagg 528

<210> 456
 <211> 431
 <212> DNA
 <213> Bovine

<400> 456
 caaaattgac cttaaacaag gaaagtttga agtcaccatc tttgacttgg gaggtggaaa 60
 aagaattcga ggaatctgga agaattacta tgctgagtc tatggggtaa tatttgttgt 120
 ggattcaagt gatgaagaaa gaatggagga aacaaaagag acaatgtcag aagtgtgtg 180

acaccctcgg atatccggaa agcctatatt ggtgttggca aataaacagg ataagggagg 240
 gggctctagg agaagctgat gtgattgagt ggtgtttttc tggaaagctc gacatgagca 300
 cacgtgctgt gttagataaa ccctgtgtgc agactgggat atggaaagaa aatgacatgt 360
 tcattaaaag ggcttttttg gttctacttt attgcagggg cttgttgcct taagaacgct 420
 ccaaaaacac a 431

<210> 457
 <211> 541
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(541)
 <223> n is a, c, g, or t

<400> 457
 tgagacattc ccatgtttcg gaggatttac agacaggagg attcgctcac cctcacatct 60
 agcaggtttt tgtaaactg acccttggct gcatctccca tcttcagcac agctcaagca 120
 ccccaaactg gtcctttctc ccccatagac tgacagggtg gatcagctcc ccggtaacct 180
 tctctccctt ctccatcttc tcccacacct tgtccatcca taaaaagcag attttggggg 240
 tccttccacg ccttctccct ttctttgtgt ctttttttta agtgatattt ttagaaatac 300
 atgtgaaata ccaaggatta atgtctgccc ctctgcgacc tctcttcacc tctttttcat 360
 aaagctgctc tttatgttgc ttacatgcct tatatatgtt tgtgaagata tatattgaga 420
 gtattgtata tattatatat ttttgttggg catcgatcct tctgaactct gccagccgnt 480
 tctctcttcc ttcacatata agcaacgcgc catacccagc ctngagcaan gggggagagn 540
 a 541

<210> 458
 <211> 526
 <212> DNA
 <213> Bovine

<400> 458
 gcacgagggg catgttgccg gccgttgccg ttgccgccgc ccgcctcgga ccccgccagg 60
 gccgccgcct gctgtccgcc gccacccagg ccgcgccgac cccaaccag cagcctgaag 120
 tcttgtaaaa ccagatcttt ataaacaatg agtggcatga tgccgacagc aagaaaacct 180
 tccccacggg caatccatcc actgggggatg tcatctgtca cgtggctgaa ggggacaagg 240

cagacgggac agagcagga aggctgcccg ggccgcattc cagctggctc gccctgcgcc 300
 gcatggacgc gtgcgggggg gccggctgtg aaccgcctgg ctgtctgatt gaggagaccg 360
 acctacttgc aggctggaga ccctgaaaga cagcccttat atctctaccg tgatctgaca 420
 ggctcagtgc tgcgtcttgc gctggctgca aacaggaaac atccatgacg gacactcagt 480
 cccgcagacg ggagggggcg aaatcaggac tccgccggcg ctgtac 526

<210> 459
 <211> 431
 <212> DNA
 <213> Bovine

<400> 459
 gcacgaggct cactttggtt ttttaaata cgttatttct gaggcttgac gtcccacaag 60
 ctaatctgtt tcttcaaggc cctggaccgg caagggcaat ctaggctatg gggagtgtta 120
 gcttgtgttg ctgacttaag acttcagccc ttctgctgtc acctgtacca agtgccaggc 180
 caacagaggg gggggggagg cagcttcacg acggggctag gggagtctgg aaggaagaag 240
 ctgcacgcgg ggaggctggg cctggggaaa tgagcatctt ggactcataa ggcctgttct 300
 tctttgttcc tggctctggc cacaggcacc aatttttctt tttttttgtt tgcttctttg 360
 gttttgcttc tggagcccat gttgtggctg aggcagaccg cggaaccac aaagaggggt 420
 gggcccctgc c 431

<210> 460
 <211> 496
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(496)
 <223> n is a, c, g, or t

<400> 460
 ctcagatcgc agcggaagag tcgtgctttt ctaacgtttc ttagcttcca aatcccgaca 60
 tacagaggct ggtaaaagca gagcagatct ggtcaggtcc tgagaccgct gagtccagag 120
 caatgttgct gaagacagtg ctcttgctgg ccttggcgtc ccaggtgcta gtcctggaga 180
 acgggctcct gcggaagcca cccatgggct ggctggcctg gggaacgctt ccgctgcaac 240
 atcgactgca gtgagggacc cgaagaactg catcagttag cagctcttat ggagatggct 300
 gaccggctgg cgcaggatgg atggggggac ctggctacgt ataccttaac atcgtgactg 360

ctgattgtgg gcgtgatgcc aaggcaccgc gtgcgggacg cagcgcttcc cagcatgcc 420
 ttctgtgct tgctactcct ggccgagctg gctttacaga ctggncactc actgctgggt 480
 accggccccg ctgaca 496

<210> 461
 <211> 536
 <212> DNA
 <213> Bovine

<400> 461
 gcacgaggca ctggctggga agcacggggg atgaccttcg tcgcacgaag acggagattt 60
 ctgagatgaa ccggaacatc aaccgttttg cagggtgag atcgagggtg cttaaaggcc 120
 agagggttg cctggaggct gccatcgctg acgctgagca gcgtggggag atggctgtta 180
 aggatgctca agccaagctg gccgggctgg aggccgtctt gaggaacgcc aagcaggaca 240
 tggcgcgcca gctgcgcgag taccaagagc tcatgaatgt caagctggcc ctggacgggtg 300
 gagattgcca cctacaggaa gctgctgggg ggcgaggaga gccggctggg tctggatgca 360
 gaacatgtat atccacacca agacaccgtg gcttcgcagt gcctgacttc gccacggac 420
 cctgctcact acaccggcc cgctccttac ccaccactcc accggggtgt gaaagaggga 480
 cccgaggag cgggccggcc ctgtgtccgc caaggaggcc cggcgcctcc ccccc 536

<210> 462
 <211> 460
 <212> DNA
 <213> Bovine

<400> 462
 ggacgagggc caaccggggt cggagaagat ctcaagatgg ctggacggga acttgctcta 60
 aaaaccattg gactggggta gcttttgggg gggatcatcc ctcggaacca gaaggcgggc 120
 taactccttg aagtcctgga atgagaccct aacctccagg ttggctactc tgcctgagaa 180
 gccacctgcc atcgactggg ctttctacag gccaacgtgg caaaggctgc ttggtggatg 240
 acttgagaag aagtttatgc ctcgaggtgt cttaccagag ataaattact gccaggtggt 300
 gctgaagaaa gaagatgtga aagtgtgtgg gtttgtctca tcaaacaga ttatgattga 360
 tagagtgtgg aaagaggaat atttctgtc aatgacttgg gatgagaaga ttcacaccaa 420
 taacaagaga cccctgctcc agcatggact ttgtggtgcg 460

<210> 463
 <211> 364
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(364)
 <223> n is a, c, g, or t

 <400> 463
 gcacgagggg gatatgtgcc caggtcctgc cctacctgtc ccaagagcac cagcagcagg 60
 tcttgggagc cattgagagg ggctaagcag gtcactgctc ctgagctgaa ctccatcatc 120
 cgacagcagc tccaagccca ccagctgtct cagctgcagg ctctggccct gccctgacc 180
 cccctgcctg tggggctgca gcccccttct ctgccggcgg tcagcgcagg taccggcctc 240
 ctctcgtgt cggcgctggg ctcccaggcc cacctctcca tgaagacaaa aacgggcatg 300
 atggtgacac ccaccaggag gacgacggcg agaagtcgat tatgggcggg ggtggggngg 360
 gggn 364

<210> 464
 <211> 504
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(504)
 <223> n is a, c, g, or t

 <400> 464
 gcacgaggct ccggtgtccc cgcgccagag acgcagcagc gtcacctctg cccacaccca 60
 ccgcgcctc gcgctcgct ctcttccgg agccagtcgg tgctaccgca gtcgccagt 120
 ccaccaccac cctctgcagc catgtccacc aggtccgtgt cctcgtctc ctaccgcagg 180
 atgttcgggg gccccgggac cgcaagtcgg ccgagctcca cccggagcta cgtgaccaca 240
 tccacccgca cctacagcct gggcagcgcg ctgcgccccca ccaccagccg caccctctac 300
 acctcggggc cgggtgggcg tgtacgccac gcgctcctcg gccgtgcgcc tgcggagcgg 360
 cggggccggc gtgcgggtgc tgcagactcg gtggacttct gntggccgac gcctcaacac 420
 cggttcaaga caccgcacca cgagagtgga gctgcagagc catgacgctc gccactacat 480
 gacaggcgct tctggacaga aaca 504

<210> 465
 <211> 378
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(378)
 <223> n is a, c, g, or t

<400> 465
 tgggtacgggg atagcgtctg cgctatggca tatacgtcat caaccagcac ggggaggaca 60
 ccttcaaccg ggccaagctg ctcaacgtgg gtttcctaga ggcaactcaag gaggactcca 120
 cctacaactg cttcatcttc agtgacgtgg acctgggtccc catgggatga ccgcaacctg 180
 taccgctgng gtggccagcc ccgccacttt gccattgccca tgggcaaatt tggcttcgng 240
 ctgccctatg ctggctactt cgaggggtgt cgggcctgaa taatcccagn tcctgggaat 300
 catggcttgc caacgagtct gnggtgggtg gtgagatgat gactcttcac cggctctctg 360
 cttgatgaag atctgggt 378

<210> 466
 <211> 528
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(528)
 <223> n is a, c, g, or t

<400> 466
 gcacgagggt gtaatcttgt gatatacct ctgtaagcct ggatctcccc aggtgtcaaa 60
 ggaggcagtt gaataagagg aactatgaac tcttctatct gtgttatata gacggcccat 120
 ttcaatctag agcaggggaa tgccatccca agagggcact tttacagagg aggggggttt 180
 gtcaacatct ttggttgaca ttactctggt gtagggaggg acggagaagg caatggcacc 240
 ccactccggc actcttgcct ggaaaatccc atggatggag gagcctgtag gctgcagncc 300
 atgggggctc gagagtcaga cacgactgag cgactcactt tcattttcac ttctgcatt 360
 aagaagaaag gcacccactc caggtctgcc gggaatccca gatggggagc cgtgctgtgc 420
 ttggggacac aagcgacaca cgaggactag cgcgcgagg gggagccgng ttgatagatg 480
 ctcaacctca cgggacctgc ggtgtacata gatatactat atttgca 528

<210> 467
 <211> 553
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(553)
 <223> n is a, c, g, or t

<400> 467
 gcacgaggaa tttatcaaaa atcccaataa ctcaacacag aatttgcacc ctaaccaaatt 60
 attacaaaca ccactagcta acataacacg cccatacaca gaccacagaa tgaattacct 120
 acgcaagggg taatgtacat aacattaatg taataaagac ataatatgta tatagtacat 180
 taaattatat gccccatgca tataagcaag tacatgacct ctatagcagt acataataca 240
 tataattatt gactgtacat agtacattat gtcaaattca ttcttgatag tatatctatt 300
 atatattcct taccattaga tcacgagctt aattaccatg ccgctgtaaa ccagcaaccc 360
 gctagcaggg atccctctgt cgctcggggc ctaaaccnng gggtcgcttc tatgaattnt 420
 ccaggctctg ttcttttctca ggccatctat taaacgtcct tcttntctta atagaatctg 480
 atgactatgc tatagccagc taccatacgg ctgcntcttg ttttttattt gtgagctgac 540
 tagttgccgn aan 553

<210> 468
 <211> 403
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(403)
 <223> n is a, c, g, or t

<400> 468
 cgcaccgtca ggctgtactg cagggccgcg ggggtgccca gtgccaccat cacctggagg 60
 aaggaagggg gcagcctccc cccacaggcc cgtgcagagc gcacagacat tgccaccctg 120
 ctcacccccg ccatcacggc cgccgacgcc ggcttttacc tctgtgtggc caccagccct 180
 gcgggcaccg cccaggcccg gattcaagtg gtcgtccttc caggtgccac caccaccg 240
 gtcaggattg agtcctcctc gccttttgtg accgaaggac agaccctgna cctcaactgc 300
 ggggtgtcag ggctggccca cagccagatc acgtggtgca gcgagggggc agcctgcctc 360
 ccacgccagc tgcgcggctc ccgctgcggc gccccagtat tac 403

<210> 469
 <211> 523
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(523)
 <223> n is a, c, g, or t

<400> 469
 cttcgtccct ctgggggtgga aaccggaaaa ttctcaggat agcgtgtacc tccagtactg 60
 taaagtctgc caagcataca aggcaccacg gccacatcac tgcagaaagt gtaacagatg 120
 tgtgatgaag atggaccatc actgcccttg gatcaacaac tgctgcggt atcagaatca 180
 tgcttccttc acgctgttcc tccttttagc accactgggc tgcattcacg ctgcctttat 240
 ttttgttatg accatgtata cgcagcttta taatcggctc tcctttggtg gaacacggnc 300
 aagattgata tgagtgcagg ccgcagagac cctctccgtt attcttttga ttagctgctt 360
 tgcgccacct gtttgcttg gtttagcttag aacacctacg tcggtgtgnt tttatcagag 420
 aaatatctaa aacaactcat gatatgatga gagagtagat gattatatat ataatgattt 480
 gtttcttggt ggaggatgaa ctcacagata atgcggtcga ggn 523

<210> 470
 <211> 549
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(549)
 <223> n is a, c, g, or t

<400> 470
 ctttctgaag agccaggaat tccttcaggc tcgcaccccg acctcagcca gcacccccat 60
 cccaccacc cctcaggctc cctgccctgc tgtagatgcc gagatcagag cccaggatgc 120
 ccctgtgtct ctgccccaa gacgagttgg gaggcaacag gtgccagaag tcatgtgggc 180
 tgaagccaag gtggccatcc ccgccagcgt cctgccagga ccagaggagc ctgggggcca 240
 gcaacaagag cccagaccaa gccagacccc tgaagatcat gcctccctgc tccagccctc 300
 accctgacca ctccagtcta gagaccaaag atggagaacc caggcatcta gagagaccag 360
 cagatcccag gaggagatga agccactgtg gggctgacag aaagaaacaa ggtagagcca 420
 agcaggagca gctgcagaga aacggcagag agcgtctgga cggaaaattc agatgccagc 480

cttgaaaaga gcttgacctt ggataaaatc aagcatgntc ctggaacaac ctgaacttaa 540
cctaaaggg 549

<210> 471
<211> 449
<212> DNA
<213> Bovine

<400> 471
cttcggcacg aggccccctt cctaggtcgg gggggacttt tgtctaccct tccctcaccc 60
tcgaggaccc tagtggcctc tgatgccagg ggtgcagtgc ctgcccagtg aaggaaagta 120
gaagaaagag gcaaggcccg ctcccggctc aatgtttgac cttcccaggc ccatttcccc 180
cctttatgta actgtcttct tatataaatg gtgatctttt tctcttcac caccattgat 240
gttgggtcaa gaaactgggc tggatgggat gagcacccat ggtccgtcct gtgcatcttt 300
tccttgctta ttacgtgggt tgggctgtca gccagattat attccccaac ccatttttgc 360
cttctctctt cccgggtgcc ttggtgtttg gtttattccg ggggccagtt cctatttttg 420
ggggttcttg gtgggggtct ttcttctca 449

<210> 472
<211> 486
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(486)
<223> n is a, c, g, or t

<400> 472
gcacgagggt gggttaagca tgaatccttt tacacagtca ttaatattgt cttttaggg 60
ttatgtagta ttctatagtt tttgtggaat gaacataaga aaaataagta gtacttcata 120
gatcctgctg catgccagac cctattccaa gtattttaca tatattgatt tatttaatta 180
tcagaatgat cttatgtagg aactactgct tctatatcaa tccagcagtc cctgatttcc 240
aactgtaga tgaggaggga tagctcacag gcagcaaatg aagcaacaat gtgcttcaca 300
gcanactgtt agcagattct taaggcaaaa aaaatggcga tggttgtctc attatcagga 360
acctaagcac gctgatgtcc ccgctcccc tctctccact ggggagacgc cacacccttc 420
ttatgtttcc cttgagcata acatctacct taacaccccc ccgcattatc agcaaaagaa 480
acacaa 486

<210> 473
 <211> 458
 <212> DNA
 <213> Bovine

<400> 473
 gggcacgatg ctcactttga ttttttatat gacgttcttt ctgatgttta acaccccaca 60
 aaatattttc atgattttacg tccctgtgca cccaagggcc gtcgatgcta tgaagagcga 120
 tgggttgctg gggggcctta aaactgaaaa gctttcggtt gcccctgtgc caatcaccag 180
 gacaaaagag gtggggggga agcagctaga caactacgtc taggggagcg agctggaaca 240
 agggcacaca cggacgccgc gcctgcctga atgagggaca gggactccga cgacctgtgt 300
 tcttgtgatt ctggacgtga cacaggcact ctgccctgcg cttttctgta cgctctcttg 360
 cttcgtgcg ggcggccctt gaggcggact gaggatgagc gcgcaacgcc acacgaggcc 420
 gcgggcccct gccagcgcg gcgcgagagg aagtgcc 458

<210> 474
 <211> 502
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(502)
 <223> n is a, c, g, or t

<400> 474
 cggactggga ggtgaacctc accgactcct tctggaactg ggagaagggc ttggttcttg 60
 aaactcctca ggtcggactt tttttttttt tttaaactgg gggctatgct gccctttcaa 120
 taaggttttt caatcgttgg tgtttgcgtt tccaacttaa gagaattcca ggcaactccc 180
 ttccccctcc agtgacatac ttgggcaagc ggtcatcggt gcgtcatggg gcagacgggg 240
 ggagcttcct gctgccgngc ggggggtggg gccgggagga ggacctgggt gtgggcccgc 300
 ctggggaatg gagngggcg gcctgagcac tgcgcctgct gcggttattg cccgagcccc 360
 tcgcctcggg gtagaggnc gactatttct ttaaaatttt ttctgtgggc gttgagtggg 420
 atgtcacgtc cagctgcctc aaccacaac acaccgacgt ctgccgatac aaatgaggag 480
 cagagcgact gatcggtgc ga 502

<210> 475
 <211> 531
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(531)
 <223> n is a, c, g, or t

<400> 475
 cttgatttga gtctgtttct aatccctgtg tcctttgctc tccagggcat gtgttccttt 60
 catatttggt ggcacccgag aaaacatcag caatgctcag gctctgctgg aatatcacct 120
 ctctacctg caggaggtgg agcagctccg cttggagagg ctgcagattg atgagcagct 180
 tcggcagatt gggctgggct ttcggcctcc tggaaggggg cggggcagcg gcagcagggg 240
 caaggctgga tataccactg atgagagctc ctctcttcc cttcatacca cacgaaccta 300
 tgggggcagg tatgggggcc gggccggggc cggaggacag gcggtcctgc ctatgctgtg 360
 agacgnatca gagaagaggg agagccccc cggctggccc ggcgacggga tccccgccc 420
 gggagaaagc cgagcgncta tagagggcgg tagggacccc actgccccgn ccactagatc 480
 actcttatga tatgtagctg agacaacgaa tcttcaacac ggcacatcac a 531

<210> 476
 <211> 534
 <212> DNA
 <213> Bovine

<400> 476
 gttttttttt tttttttttg atggaatgta aatcttttat taaacagttg tctttccaca 60
 gtagtaaagc tttggcacat acagtataaa aaataatcac caaccataat tagaccagat 120
 tcctcttata aactgcatac taagtatctt cagtacaatt ttttttccat ataaaaatac 180
 tgggaaaaat tgataaataa caggtaagaa aaagatattt ctaggcaatt actagaatca 240
 ttgggaaaag tgagtactgg ggctgttctg aataccacag taaaaggac atgctgttcc 300
 tacaatattg cgggccagtc agttaagtgg aagcagaagt gttcaggtaa ctttcctact 360
 taaaatttgg taatatcatt tcaagacatt ttgtatcttg gttgggtgca tgtgctccct 420
 aggatcccat ccaaatacaca gtagatcact catttaaatac tgatgcatgg atatttgaga 480
 atgatacctc tgctcatgat gagaaagctg aacactcagg gagctggaga gcgt 534

<210> 477
 <211> 538
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(538)
 <223> n is a, c, g, or t

<400> 477
 tggtttttctt aggcacgggg ggagctgagt aggtgtgggg atgggacagg gaagggcaaa 60
 ggacagagcg gggggacctt tgcctctcca ggtgccccac ggccagcccc ccgcgtcctt 120
 cctgcactgc tcccacaccc cacaccccca gggccctgag ggaaagacag gccccgaggc 180
 cccaggctgg agagaatagc ccgaggcatg atgccgcact cctggccccg agacttcccc 240
 ttcateccct cccactcccc acagaccctt ttgactctc atcctgaagc ctagaaagag 300
 agagaagcgg gngggggtgg gtctgtgggg ngacgggcgg aggaggcggg gaggcaggaa 360
 aggcgggagc cctctgtgct ggtttttacc agatacacag cagcttccaa tatattattc 420
 acccctgaaa aaaaaaaaaa atgagggggc cgggaccatc gnctatggag ngatacatca 480
 tgnccgcttt acagggatgg aaactgcgta cactatgctg accatccctt gcgggggt 538

<210> 478
 <211> 525
 <212> DNA
 <213> Bovine

<400> 478
 gcacgaggct cgggaggtca gaaagccggg ccgcgggcgg caccgagaac tggagctggg 60
 atcggggacg cacagaggtc aggggaagta atcctggacc atgactcagc agccacttcg 120
 aggtgtgacc agtctgcgtt tcaaccaaga ccagagctgc ttttgctgtg ctatggagac 180
 aggtgtgcgc atctacaacg tggagccatt gatggagaag gggcatctgg accatgagca 240
 ggggggcagc atgggcctgg tggaaatgct gcaccgctcc aacctgctgg ccctgtgggc 300
 gggggtagca gcccgaagtt ctcaagatc tcagggtgt ctgggacgat gcccgggggg 360
 gcaggactcc aagacagctg tgctggagtt cacttcacaa gccggcggct ggcgctgcgc 420
 atgacaatcg gatcggtga gaacgcttat ggttctctcc tgacatccga agctgtgatt 480
 gcaccggaca cccagggtt ggacttgtcc actgaaacag tgtgg 525

<210> 479
 <211> 373
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(373)
 <223> n is a, c, g, or t

<400> 479
 gcacgaggcg aacgagcagt accgggcgct gcgccccgac ctggcggtag ggggaggggtg 60
 gataggaggg gtgcggcggc ggggggggagc gggggaaccc ggaccccaca ggacatccga 120
 ggacgggggg cctctcccct gggtcagtac tgtctttgct ccatgtccag acatcttcct 180
 gtttaaaatg aacaaagctc tcacttcaaa atccacactt catttgggac tagacagtcg 240
 ggggttgggg ttgtttcctt actgctaaac aaaatcctcc acccgggact ctgatttggg 300
 gacccaaagc cccccagaac ctcacctgtg agcctcgctg tgtggtgcgg ggaggggtggg 360
 ttggggggnn ggg 373

<210> 480
 <211> 497
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(497)
 <223> n is a, c, g, or t

<400> 480
 gcacgaggct gcagattcct tcctataact atttataggt agtcctgact ccactaccgg 60
 cttcccaaatt gggctgttca cgcggaagag gctcacgttt cacacagcag aaccgagag 120
 aatggtgtga actgtcgggg gggagtgcac gcaggaggca gactgagtgc cctgctgtgc 180
 tcacctgtgc ttatcactct tctagcatcg cgtccacgct ggtctccctc gggaaccagc 240
 tgtgtcagag gcccctctgt ggctggatgt ctagcttgct ccgccaggca cagcgngct 300
 ttggggggccg cagggggcg gctgtgtctg ggctcaccce gcgcggnnac acgtccctc 360
 ttggccncaac ggggtgtccg tctccctctc tggcttcgct gtcccatgt tagtcacang 420
 agagcctggc tcccctgccc ttatttgnat gaaatggcta gatctgcctt actcttactg 480
 atgatgaatt gatatgc 497

<210> 481
<211> 557
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(557)
<223> n is a, c, g, or t

<400> 481
gttgagtcta ggaaccgtcc cagcatggct ccctccacc gccaccacca ccaccatgtc 60
ccacccctg cgatggcagg tgatctagct cagggggggc tcccaggctg agcaggaaag 120
gaagtttcca gaaaacctgg gctgggggag gagtctggg gacagcagat gcctgccgca 180
gagggctggc tgcctgtgga cccttcccag ctcagtggag gccacgttag gggccctcaa 240
gcaaccaga agcacaaatt ggtggtttgg ggccacgccc agctgggctg gcatccacga 300
acctggagag ttggctatgg cagcaccagg gcctcggccc cactcctctc ccagggtccc 360
cgtcctttcc cccgccaggc tctgctcagg ccagcccctg agccgncagc gggcccctct 420
accggggcct ggtcttgagc acaccctgtc cactcaccca ctctnnttcc tcgccacct 480
tccccgcacc atcgccctat atcgggttgc tctcaggccc actgagtcac tttctanntt 540
gtctggcctg cgcgct 557

<210> 482
<211> 554
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(554)
<223> n is a, c, g, or t

<400> 482
gcacgagggg aagcccatgt tttatgtgtg cacacacaca caaatgtaca cacactcatg 60
gtctgccagt ctagcagtgg gaaaatgaag atgaggcagg gtctgaatgt ccaattgctc 120
tactgactg ccacggagca tggatatgtga agtggggtct tatctggaga actgtccatc 180
agggctgtag tcctggctac agtccaccag ggctgtaaca tgcattatcc atttacagtc 240
agcgaaacca tcgatagaaa agccacaaca acaagggagc tgcaggaaaa gaatcatgta 300
agccctcctg ggtccttcat ggcttttagga aatagggaaa ggacacataa atgagcagga 360
agggcaacta gagtgggggt ggaggtgggg caaccacatt tcaagggctg ccagtctcaa 420

cgaagctgcc caaagcgaca cctatgggtgt ggtgtgtgcc cgaagggcca gcaagaggag 480
tctacattta aagcttacgt gactcttgtg ccatgctaaa ccacctcaag cagggggggcc 540
aacccggcgc gccn 554

<210> 483
<211> 504
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(504)
<223> n is a, c, g, or t

<400> 483
gcacgagggg gaaattcaga agaaggcgag agggcaaaac tgactactat gctcgaaac 60
gattggtaat ccaagataaa aataagtaca acacacctaa atacagaatg attgttcgtg 120
taacgaacag agatatcatt tgtcagattg cttatgcccg tatagaagga gatatgatag 180
tttgtgcagc ttatgctcac gaactcccaa aatatgggtgt gaaggttggc ctgacaaatt 240
atgctgcggc atattgtgct ggccctgctgc tggcccgag gcttcttaat aggtttggta 300
tggacaaaat ttatgaaggg cagtcgaggt gactggagat gaatacatgg ggaagctcga 360
tgtcacctgt gcctcacctg taccggtgcg gactgccgca cactacggga taagttttgg 420
gcctaaggag cgcgnggagc tgcttctctc agaccacggt ctgnttgatt agagcaagat 480
caggctggac acgagccaat gcca 504

<210> 484
<211> 319
<212> DNA
<213> Bovine

<400> 484
gcacgaggaa acaggtagt tttaccctac tgatgatgtg ttgttgccat ggtaatcctg 60
ctcagtacga gaggaaccgc agttcagaca tttggtgtat gtgcttggct gaggagccaa 120
tggggcgaag ctaccatctg tgggattatg actgaacgcc tctaagtcag aatccccgcc 180
aggcggaacg atacggcagc gccgcgggag cctcggttgg cctcggatag ccggcccccc 240
gccgcccccg ccggcggggc gtcgcccgcg tccccgggg cgcggcgcgg cgcgcccccg 300
ctgcgcgtcg ggaccgggg 319

<210> 485
<211> 532
<212> DNA
<213> Bovine

<400> 485
gcacgaggct aagacccgtg tgcagcagcg gcgggcgggg gtagaggcgg gggcgggggc 60
ggcggcagcg gcagcggcag cggggctcgg gaggcagcgg ttgggctcgc ggcgagcgga 120
cggggctcag tcaagtgcgtt cgcgcgagtt ggaatcgtag cctcttaaaa tggcagatga 180
tttgacttc gagacaggag atgcaggggc ctccagccacc ttcccgatgc agtgctcagc 240
attacgtaag aatggcttcg tgggtgctcaa aggccggcca tgtaagaatg tggagatgtc 300
aacttctaag accggcagca cgggcatgcc aagtccatct ggttgatttg acatttcattg 360
gaagaaatac cagattctgc catcactcat ataggagtcc ccacataaag aacgattcac 420
tggtgcatca gatgatactt cactcccaag aaggagtgct ggagactccg cgccgagaga 480
cctgcagaaa gacaaaacac gggagaaaat tgtcaggcgc ccctgacagg cg 532

<210> 486
<211> 340
<212> DNA
<213> Bovine

<400> 486
caaattgtaa gcgttaatat ttgtttaaaa ttgcggttaa atttttgcta aatcagctca 60
ttttttaacc aataggccga aatcggcaaa atcccttata aatcaaaaga atagaccgtg 120
atagggttga gtgttggtcc agtttgcaac aagagtccac tattaagaa cgtggactcc 180
aacgtcaaag gcgaaaaacc gcttcaggcg atgccccata cggaaccata ccctataagt 240
ttttgtgtcg agtgccgtag cactaatcga acctaagaag cccgtttaag cttacgggaa 300
gcgggaagtg gagtaagagg aaaaggaagg ggggccctgc 340

<210> 487
<211> 511
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(511)
<223> n is a, c, g, or t

<400> 487
gcacgaggag aagggggacg tgggtgctgca gagtgaccac gtgatcgaga ccctgaccaa 60

gacagccctc agcgctgacc gagtgaacaa catcaacatc aaccagggca gcatcacgtt 120
cgcagggggg cccggcaggg atggcatcat tgacttcaca cccggctcgg agctgctcat 180
caccaaggcc aagaacgggc acctggctgt ggtggcccg cggtgaact cgcggggatg 240
aaggcgcca gcggaccct cccgcctccc agtgcttcgc tcatccctc ctnccttccc 300
agctaccaa gactcgagct tgcagacagg gaccagga cacctcngag cccaccgaca 360
aactcccgcc tctgctcgg ccctctctgn gggggcgga gggcgagc agctgccag 420
nagtgggcag cggggccaca cataggagag cggggcagag cagcgcgag cccctgncat 480
gcaatattga gagaggactt tgtgagtttt n 511

<210> 488
<211> 553
<212> DNA
<213> Bovine

<400> 488
tatggaatga tgctggcagg cctaagggtc aagtagaata caaggagag acaaagagtt 60
tttaccaga ggaggtgtca tccatggtcc tgacaaagat gaaggaaatc gcagaagcct 120
accttgggaa gacggttacc aacgctgtcg tcacagtacc tgcctatattt aatgactctc 180
agcgtcaggc taccaaagat gctggaacta ttgctggtct caacgtactt cgaatcatca 240
atgagccaac tgctgctgct attgcctatg gcttagacaa aaagggtgga gcagaaagga 300
acgtgctgat ctttgtttta ggggtggcac ttttgatgtg ttaatcctca ctattgggat 360
ggatctttga gtcaatctac actggagtac tccttgggtg ggagacttga caccgctggt 420
taccattttt gcgagtcagc ggacacagaa gattaggaaa cagaggtggc gcgctcgtcg 480
gtggggggct agcgctttt tcgccccagc agttggatgt tcctttgagg atgctttact 540
tttcggccc ttc 553

<210> 489
<211> 543
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(543)
<223> n is a, c, g, or t

<400> 489
gcacgaggca acgtcatccg ctatttcccc acgcaagcgc tcaacttcgc tttcaaagac 60

aagtacaagc agatcttcct ggggggctg gacaagcgca cgcaggtctg gaggtacttt 120
gcgggcaacc tggcctccgg cggggcggcc ggggccactt ccctgtgctt cgtctaccgg 180
ctggatttcg cccgaaccgg cctgggggcc gacgtgggca agtcgggcag tgagcgcgag 240
ttcagggcct gggagattgt ctggtgaaga tcaccaagtc cgacggcatc cgcgggctgt 300
accaggcttc aagggnnngt gcagggcatc atcatctacc gcgcgnctac ttcgcatcta 360
cgaaccgnca gggctgctcc cgaccccaga cagccatgn ggtgagctga agatcggcag 420
acggacggcg gggggcgtag ctctaccctc gcacggcggg ggctgagagc agcggcgcaa 480
ggacgcacat gacagcccg gctgtgtag actagacagg cgaggctttc aggcttgga 540
gcn 543

<210> 490
<211> 547
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(547)
<223> n is a, c, g, or t

<400> 490
aaagcgtca aatttatgac atacaacagc tgtggccaga ctctgcttaa atcaagagac 60
aatatgtcta gcaagcactg ctatggaaaa ctggaaaatt gtgtgggcca aaacaaaact 120
tgccaatggg acttccagta tgatttgcc caagcaacgg aaactctcag caaggctatg 180
agaagggaaa gggactgtgt gtcaaataatt ttgagcagag ggcagaatcc gatcaagggg 240
aatttgtgga acatcttatt tccaaatgtg tcattatcca acatgggcac ataaactcat 300
atctaaacct tgttgttgag gggatttctt actntctgcc gctggngtgt agtcacattg 360
tgggacacct gtgtactggg tgcgatcat ttgtgtgcn gacgggtgga nagagggacg 420
cgngcggcgg tgggtgttgg gagagagatg aagaaggag gcgatgttgg ggagggcggg 480
acgaggcngg gcggtttgta aaacaacccg nggaaggccc cacctttttg tggcttctat 540
tttcgcc 547

<210> 491
 <211> 540
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(540)
 <223> n is a, c, g, or t

<400> 491
 cggcagcatg tctcacagga agttctctgc tcccaggcat gggttccctg gggcttcctg 60
 gctcggaagc gcagcagccg gcaccgcggg gaaggtggaa gagcttcccc aaggatgact 120
 cttccaagcc tgtgcacctc actggctttc ttggctacaa ggctggcatg acccacattg 180
 gggagggagg tcgataggcc aggggccaag gtgaacaaga aggaaggggg gggaggctgt 240
 gaccatcggg gagactccgg cccatggtga ttgtgggcat cgtgggctac gtggaaacac 300
 cccgggcctc cggaccttta agaccatctt tgtgagcata ttagcgacga gggcaaaggc 360
 gctttacaag actgcataag acagaagaag gcctcacaaa actgaggaag gcagacgcga 420
 cgcagaagag ttggaggatt acagataaaa gactgcagta tcggcatgcc aaccaatcgc 480
 tgtcttgga gagagcccta tgagtcagga cgagccgngc caaatgacgg cgggagtggc 540

<210> 492
 <211> 525
 <212> DNA
 <213> Bovine

<400> 492
 gttgaccttg acctgggtaa ctatgaacgt ttccttgata tccgcctcac caaggacaat 60
 aatctgacca ctggcaagat ctatcagtac gtcattaaca aggaacgcaa aggagattat 120
 ttggggaaaa ccgtccaagt ggtccgcac atcacagatg caatccagga gtgggtaatg 180
 agacaggcct taatacccggt ggacgaagat ggtctggaac ctcaagtgtg tgttatcgag 240
 cttggtggga cagtaggaga tatagaaagc atgcccttta ttgaggcctt ccgtcaattc 300
 cagttcaggg tcaaaagaga ggaactctgt tatattcatg tcagcctcgt gccgcagcca 360
 agttcacagg ggacagagac taaccaccca gacagggtcg ggactcagag gcttggttc 420
 ccagtctgtt gttgccgggc tcaatctctg accgcaggaa agaaaatatg agtctgctgg 480
 aaccgacagg actggcctga gctcgcctta cggtccttat gtaga 525

<210> 493
 <211> 542
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(542)
 <223> n is a, c, g, or t

<400> 493
 gcacgagggg tttttatttt tcagcctggt tgttttcaag gtggagaata aaaaactgac 60
 tctgttccaa tcttattggt accaatcagt atacatcact taaagctggt gctcctgagc 120
 ttatattgaa gtagccctaa gtacctggtg aagtttacat gtataagaga gttacacatt 180
 tggggggttca gttgatttca acgtagtaac ataaacatac tctagaacta tacacaaaga 240
 ttacaatttt aaaaacataa tcagncacct tattacctgg aaatttatta ctttttacta 300
 ctcttcattt gcttcagaca atacatattt cattccttat aatctagaat tcaagaacca 360
 ggactctaatt ctttttcttc tcattctctta tcttttctaaa attgcctggg tagagatcag 420
 gtataaatat ttatattaat tgattattat ggtaggggga ggcaagaacc aaccatacag 480
 gatcatgcta cgatttagac atagncaaaa cagagaagga nnatattttt aaggatatat 540
 at 542

<210> 494
 <211> 517
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(517)
 <223> n is a, c, g, or t

<400> 494
 gtggtactaa cttacttcc cttagtgttg acccgagaa ggaacgatgg tgctggatct 60
 ggatttggtt cgggtggata aaggggggga acccagcact catccgagag tcgcaggaga 120
 agcgcttcaa ggaccggga ctggtggacc agctggtgaa ggcagacagc gagtggcgac 180
 gatgcagatt tcgggcagac aacttgaaca agctgaagaa cctatgcagc aagacaattg 240
 gagagaaaat gaagaaaaaa gagccagtgg gaaatgatga gtccattcca gaagagtatt 300
 aaatctcgat gacctcactg cagacactct aactaacctg aaagtctcac agatcaaaaa 360
 gtccgcctcc tcgncgacga agcctctgca ggtgacgccg agcggataaa acgggagctg 420

acgcctgaga gcgttcggag atcgggacct ctgcaccgnc gngccatcac gagacagatg 480
cgacacaaga nagagattgg gggatgtcag ncagaga 517

<210> 495
<211> 25
<212> DNA
<213> Bovine

<400> 495
tatctagtgg tttccccccg cttct 25

<210> 496
<211> 396
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(396)
<223> n is a, c, g, or t

<400> 496
gcacgaggct ctggcgctccc gaattccgtc tgttttttct cacaggctgt gtcccgtccg 60
ctggcccaac acctcagggg aacgatgggc cgcagagtcc acagccactg ccggcatcac 120
cgcgagactg ggttctgccg aaaaaattga agaagatgcc cctgctcctt ctacttctgc 180
agataaagtg gagagtctgg atggggatag tgaagctaag aaactcttgg gattaggaca 240
gaaacatctg ggaatgggtg atattcctgc agctggcaat gccttcagg aagcagctag 300
ncttttaggt aagaaggagg gagagacagc taatgaatgt ggagaaagcc tcttttttta 360
tgggaatcgc tttggagtgg gcagatggga gatggg 396

<210> 497
<211> 550
<212> DNA
<213> Bovine

<400> 497
taggcgcaga tcaccctcgg cctggtcaag ttcaagaacc acaggccatc cagaccgtgc 60
gcgcccgga gagcctgggg ccggggcgct gtgtgctaga gcgcgggggc gcgcctggcc 120
tgcccagagt cgtgccagct tctgggcccc catcggtctt cggagcgtga ctgtgctcct 180
gactgtgctc cgagtggcga ggctgcggtc gcggacaccc ccgtggagga ggcgttggag 240
tcacgggtca gcgggagcca gcaaggaggg ggacagccac ggagagctga ggatgaggat 300

tcggccccgg gcgctcaggc tctcaggacg tgctgtccc agcccagcct ctgagctcca 360
gcaagccccg accgctgcgc cctattgcta ctctgcagat gtccgaccag cttgggctgg 420
gctgcagagg cggacccgga tcgtgaccac atttagactg gagccgctgg gacacggaca 480
acccagcta attgatcacg agccatctgg gtgtgggctg gtcctccgac cccctcgcc 540
cttttacatc 550

<210> 498
<211> 485
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(485)
<223> n is a, c, g, or t

<400> 498
gcacgagggt ttcacataaa acacaggga aaatgtcacg cttgaagggt gcccttcagt 60
tctcctagt aaagggcatg tagcaacagt accttgtgcc tggccatctt tactccagct 120
cacgtgctct ggtacctcat tgtgtcctca cagcagccct ggaaggcggg aggggcgcta 180
ctgccatcct tgtgtgtgtg aaaacttgag accgagataa ggccagcgac ttgcctgact 240
aaagttgcct aggttgccca agctgtgcc tcatccaca ctcagcagag acggggagag 300
cacctgtggg gcagagactg aaaaaagtcc ccagntccgc tttgtcctcc tgggcccgcg 360
gctgccctgc ccagccaggt actcttttct cttcacgatg ataaacctga caccagtctt 420
gtgcgacaca ggggcctggc tatctctgca tatcacaaca tactgggtcc tggggcacgg 480
naaga 485

<210> 499
<211> 543
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(543)
<223> n is a, c, g, or t

<400> 499
gcacgagggt tgcattcagt ttgactaaa aggagcttca tctttcaaga taaccgctgg 60
aattgaagca gttggtggta aattaagcgt gacgtcaaca agggaaaaca tggcctatac 120
tgtggaatgc ctgcgggatg atgttgatat tctaattggag ttctgtctca atgtcaccac 180

agcaccagaa tttcgacgct gggaggtagc tgcccttcag cctcagctaa ggattgacaa 240
 agctgtggct cttcagaatc cacaggctca cgtcattgaa aatttgcatg ctgccgctta 300
 cagaaatgcc ttggctaatt ccttatattg tcctgattat aggattggaa aaggacacca 360
 gtgagttact gactatgtac agaatcattt acagtgcagg aggctttggt gactggggng 420
 tcctctgcct aagcagtgtc gacacttcta cataaggggg cttgttattg ggcaagccag 480
 accatgagga aatgagacag agagacgccg ccatccgttt ggcaaagcac ctgaagcaaa 540
 caa 543

<210> 500
 <211> 507
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(507)
 <223> n is a, c, g, or t

<400> 500
 ttgtattggg aggaaaaaga caggccaaga agctctctct caaacaacca tctcatggac 60
 cccattccag gaaagctctg agtatatcat ttcattgtcat ccagttggca ttgatgaaga 120
 acccttacag ttccgagttc ctggaacctc tgctagtgcc accttgacgg gcctcaccag 180
 agggggccacc tacaacatca ttagggaggc agcaaaagac cagcagaggc agaaggttcg 240
 cgggaggggg ggtaccgngg gcattctgtt gaccagggcc cgagccagcc cacacatgac 300
 tcctgcttcg acccctcacg gctcccatat gccattggag aggggtgggag ggatggctgt 360
 ttggctttac tctcggcgcg cttagcttgg cgtgggcatt ccatgcgata tctatgtgcc 420
 tgacagggag aactcagaag aggaaggagc ggagggagat ggcgagaggc gccggcctga 480
 atgaaagaga taggtgacca gagccag 507

<210> 501
 <211> 11
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(11)
 <223> n is a, c, g, or t

 <400> 501
 attttcgcgg n 11

 <210> 502
 <211> 15
 <212> DNA
 <213> Bovine

 <400> 502
 ttttgtttaa cacct 15

 <210> 503
 <211> 14
 <212> DNA
 <213> Bovine

 <400> 503
 gccgcatgaa accc 14

 <210> 504
 <211> 13
 <212> DNA
 <213> Bovine

 <400> 504
 atttgaaaac ccc 13

 <210> 505
 <211> 478
 <212> DNA
 <213> Bovine

 <400> 505
 aggcacgagg cagagacgca gcagcggctc cctctgccca caccaccgc gccctcgcgc 60
 tcgcctctcc ttccggagcc agtcctgtct accgcaggcg cccagtccac caccaccctc 120
 tgcagccatg tgcaccaggt ccgtgtctct gtctctctac cgcaggatgt tcggcgggccc 180
 cggcaccgga gtcgggagag ctccaccggg agctacgtga ccacatccac ccgcacctac 240
 aggctgggca gggcgctgcg ccccaccacc agccgcaccc tctacacctc ggccccgggg 300

gggcggggcc cccagcgctg cctggccgtg cgctgcgggc ggcgggccgc gtgggggggt 360
 ggagaattgg gggattccgg ggccgacgcc tcacacgatt caagacaccg acacgggagg 420
 gggg'gcgaga cccaagccgc tcgcaaataa ggacaggggc tctgagagaa aaagaacg 478

<210> 506
 <211> 381
 <212> DNA
 <213> Bovine

<400> 506
 cccgcgccag aaacgcagca tcgctccctc tgcccacacc caccgcgcc tcgtgtctcg 60
 cctctccttg cggagccagt ccgtgctacc gcagtcgcc agtccaccac caccctctgc 120
 agccatgtcc accaggtccg ggccccgggc tcctaccgga ggatggcggg gggccccggga 180
 ccggagggcg gccgagcttc accggggcta cgtgaccaca tccaccggac ctacaggcgg 240
 ggaagggcgc cggggccac cccgcgcgga cccttacacc ggggccgggg ggggggcccc 300
 cccgcgcccg ggccgggggc gggggggggg gggcgggggg gggggggggg gcgggggctt 360
 ggggggcggc ccccaaacca a 381

<210> 507
 <211> 457
 <212> DNA
 <213> Bovine

<400> 507
 gggcggggcg tggttttttt tttttttttt tttagcgggg tggctagggg gcttctggag 60
 tcttttatatt tgtaaata taagatacct tttttttgtt tttatttgtt gaaaagaaag 120
 ctttcattgg ctttttatgg tgggggacat ggggggaaag gggggaacc catgcatggc 180
 gcactcccc ccaggggggg gggggggggg aaaggggcgg aaaaccccg ggctcctggt 240
 gcaaaagctt cccgggacag ggtccaaatg caggaaccaa aggggccggg gaggcggggg 300
 gggaaccgcg gaggggttca ctcttgggag gacataacat gattcggccc caacttcccc 360
 acccggggta aaaatttcta aaaccccccg ttggactggg gggcgggggg gccgggcccc 420
 ggtgggtgga aacaggggcc caaaaaaaaa agcgacc 457

<210> 508
 <211> 403
 <212> DNA
 <213> Bovine

<400> 508
 tggcacgagg gaaaaggtgg ctggtggtga gttgctgggt tcctccctgg tgcctactgg 60
 gttttcccag ggtggctggt tggggcggag ggcggggccc ccccgccccc cttttgggaa 120
 aatgcctggg accccccttg gccccctccc tggcgctgg gtgggaaaaa aaaggagca 180
 aaaaaggccc ccggcggggg aagaatggg ccccggttg gggggccccg ggggaagggc 240
 cggggccccc ctggtccccc cctgggcccc ggggtggggg agaaaaagag gccccgtggg 300
 ggcggacggg cacctggttg ggggctccc gggacctccc tgaacccta aaggaatttg 360
 gtgggacagg gggggggggg gggggggacg ggcccgggcc aaa 403

<210> 509
 <211> 471
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(471)
 <223> n is a, c, g, or t

<400> 509
 gcacgagggt tttttttttt tttttttttt tttttttttt tttttttggg gttaacaatt 60
 ttttattagg ggggaggttc ggaacaagga agaaaggggg gggaggaggg agggaggggg 120
 ggggaggaga acaccaagcc ggggtaggtg ggccacggcc agagggaana agggggcccc 180
 gggatggaag gggagcgggg agggggacgg ggggcaggca acaggagggg gacacggaga 240
 gggggggggg gtaggggaca aggggacccc acatccccgc cggccaatg gtaacagaac 300
 aaccaaagcc ccggggggga caaggggggc aacttgctgt ggaacagggt taaaatcggg 360
 gaagggtgac caacgccctt ggcggggggg ggagaaaaaa aaaagaaaaa acccccggac 420
 aaaaagaccc cattatgttg gtggagaggg gaagtggggg ggaaccacg n 471

<210> 510
 <211> 391
 <212> DNA
 <213> Bovine

<400> 510
 gcacgagggt tttttttttt ttttttttgg gtaccaaatt actttatttg gaaggaatgg 60

gtactaaaga aagaacttaa gttgatgttt tgttacaact tatagaaaag atgaaggtaa 120
 cccaaatatg gctgcactgc cttggggacc aggggaaggca cccctgtggg tgtgggaaac 180
 cagcctgggg ctttagtttc actggggcca ggggtgtgctt gggaaagggg acctctgcct 240
 tgccagatcc cggagccccc ctcttgggcc aggtggtttt gggggcaccc attttttggg 300
 ggtttcccc gtctattaag gaaggggtta aagaaaacac aaaggggtta tttttttagg 360
 ggggtggggg gggccggggg cggttccacc t 391

<210> 511
 <211> 437
 <212> DNA
 <213> Bovine

<400> 511
 gcacgagggt tttttttttt tttttttgct gtactgagca gcatgtggga accttagttc 60
 cttggtccag gggattgaac ctgggcccc tgcagtagaa gtacagagtt aaccactgga 120
 actggtacca gggatatttc acacatagat tttaggagct ttgtgctgta tgcttaaag 180
 ctggcattcc agagataaca tgaagacaaa ctgggttggga gagtctcatc atctgttttc 240
 ccctccgggg ctggccatag aagactgaaa tccaggggaag aaagatgctg cagcagcaga 300
 gagcgctgat tcaaactacc tgcttacagg catgctcgac ggcagaggca ggcggggcta 360
 aacaaaccgg ggactatgtt tctaattgaa atacgtgtgg gctttccttg ttggccgggg 420
 caggaaggaa cgagtgg 437

<210> 512
 <211> 465
 <212> DNA
 <213> Bovine

<400> 512
 gcacgagggt tttttttttt ttttttctca ttaaactttt tttaatgggt ctcaaattct 60
 gtgacagatt tttggtcaag ttgttttcat taaaaagtac tgattttaaa aactaataac 120
 ttaaactgcc acacacaaaa catatgggtcc aaaaaacat tctcctttcc ttctgaagg 180
 tttacgatgc attgttatca ttaaccagtc ttttactatt aaacttaaag ggccaattga 240
 gacaaacagt tctgagaccg tccttccacc actgattaag actgggggtg cggatatttg 300
 ggatatattc atttaccttt tgactttttg gcagactggg accttccacc ccagcgctc 360
 ctgccatgtt ttgagacccc cgcgatgttt gttagtccgc cagaaacgcc agggaggaat 420
 aaagaacttt gcccatgggt tgccgacctt aacgtggggg ggccc 465

<210> 513
 <211> 486
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(486)
 <223> n is a, c, g, or t

<400> 513
 aggctcgagt tttttttttt tttttttggg aaaacaagaa atcagtttat tttcatcatt 60
 ttcttggcat ttggaaggta ctccccggat ggacatcgct tgggccttga gattctttgc 120
 catagaccct aaaccaccac acaactgcaa ccaaccactt tacgaggggt cccctctctg 180
 tcaattttac agaggcctac cccttcccct agtttctttt tgccatcaac cttaataagg 240
 tgatttgaag ctcagcacia agggccctca ccaacttgac atacattagc tcatcacagt 300
 gggatgagag cacacacaga ggggcttggc gcttgggcta agcttcgaga ttccgattcc 360
 aggctagcca tgggatgagg cgcctcagcc cctgcgaaag ataacgcctt acaccccgca 420
 catgcctcct gcctgggggg gtaggggggg caaactgatg cccgacctcc ccccgcgctc 480
 cggtgn 486

<210> 514
 <211> 106
 <212> DNA
 <213> Bovine

<400> 514
 gggggggggg ccgttttttt tatttttgtt tttctttttt tttctttttt tttttttttt 60
 attttttttt gtttgtgttt gggttttttt tttggttttt ttgttg 106

<210> 515
 <211> 345
 <212> DNA
 <213> Bovine

<400> 515
 gtctcgagtt tttttttttt ttttttcagt cctggatgag gctgcagctt tggcacatca 60
 tccactgtcc ccagccatga tgtaaagggc acagactttg gggttgtcat aggatccctt 120
 gacaaattcg atgtagagtt tgcctgggaa ggtggacacc tcgccctgga cgctcagctt 180
 ccccttccgg atgctcatcg ggatgatctc atcatgggca gtactgggcc ctacaagatc 240
 aaagatatcc aggcccttca ccaccccggt gccggtcaac cgcacgtaaa acaccttttg 300

ttgggacggg ccaagaagac ccaaagaact taacaccgca cgtag 345

<210> 516
<211> 380
<212> DNA
<213> Bovine

<400> 516
aagcctcatg tgtatgagtg ttttcccctc agactgcaca cctttcatct cttgtagctg 60
ctctgccgta gagttgcaca gatcttcatg gtgagcaatt aagaaatddd agtgaaaagt 120
agataacaat ttcagaaatc agtttctctg gtcttttgta atactgtttg gcttcccatg 180
gctttttttg gagttgttta ttgaatatgt ggttttgaca gcctcctcat tacagtttct 240
taaatgcata ctggtttgta aagaattatt gacgttattc attccattta tgagaaaaga 300
gagaacagct aataaaaactt attggaaaat cggaaaaaaa aaaaaaaaaa aactgagggg 360
ggcccgtacc ccatcgctt 380

<210> 517
<211> 461
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(461)
<223> n is a, c, g, or t

<400> 517
gcacgaggtc gagttttttt tttttttttt taaacactac agagtgcaaa tcaggttctt 60
cacaatagat tgagtattaa gcagttcttg aaagaatgag gggggaagaa gaaaagccca 120
agtgaataaa acattgaaac tattcccctt tgaaaataaa ttctaaaatg atgcggaatg 180
tgaaataagc tttaaacata ggggatccga gtttatagat agaaacaaaa agtagtcctt 240
natgaaataa ggttacaaga acatgtggct gtttttcctt gttataactg gaagcgagaa 300
gagacgagtt tgggacgaaa tagcgactca gatcactttc cttcacagct gacccaagca 360
gctgagtgcc gagctgtgaa ggaaccaagc aacgggccgg ggggacgaac gcgggccgct 420
gcagaacacg ggcgacataa caagggggct cgagctgtgt t 461

<210> 518
 <211> 526
 <212> DNA
 <213> Bovine

<400> 518
 gggcgggcgt cttatatattg gatcccccg gctgggggga gcgaggcggg aacggggcgt 60
 tgggtctgtc gtttgggccg ccagacacc tttactgtaa agatgggtcaa cgtacctaaa 120
 acccccagga ctttttggtg gaagggtgga aagcatcagc ctcacaaagt gacctcaggat 180
 aagaaggggc aaaggattgc ctgggtgccc agggaaagag ggccttgga tcgggagcaa 240
 agggggtccc ggggggcaaa accaagccaa tttttccgga agaaggggta aaccaccaag 300
 aaaaagggtg cgagacttgg atgctggtgg ccgaacttgc ggatccaaaa ggatgctggc 360
 ctttaaaagg ggcggccttt tggaattggg gagaaaagaa aaaaggggccc aggttccttt 420
 taaatttggg ttttttggtt ttttttgaga aaaggggagt taaaaaatgg ttgtgggtaa 480
 tttgggtttt cttttaaaaa aaaaaaaaaat gggggggggc gggctt 526

<210> 519
 <211> 425
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(425)
 <223> n is a, c, g, or t

<400> 519
 tttttttttt cgtaaaaacc tgtttttaat tttgtataaa acaaagggtg gcctccgccc 60
 caggggggctg tagggagaat tcaagctaga ccagctggng gtgggggggtc acaggcctac 120
 ctgggggggg gggacgggcc ctggaggggg gacagggaag gcatggcagg gggcccaagg 180
 cccacagagc accccgggcc gccccccgc cccgggggca ggagactagc ccctccgggg 240
 gcccccttg ggggtgcggg gggggggccc agggcccgca gcctctaaca agacgagaga 300
 aaagggggaa ggggggaaag caccaggag ggagaaccct ggggcccccg gctgcggggg 360
 gccgcttccc cctacaacc ccagcttctg gccaggcggc gcacaactgc acaggccctg 420
 tgggc 425

<210> 520
 <211> 395
 <212> DNA
 <213> Bovine

<400> 520
 ggacgagggc gggaacgtgc tggaccctct gtgccagctg ggcaaccccc agcttcgggt 60
 ttttcgcacc aacttcttca tccaggggtg gtgcggggcc ggcaccgggc ccagccccga 120
 gggatacccg tggcagggtc ccgcatcccc catggaagga tggaccagaa gtggaccctc 180
 aggaaactac ctcgggcgcg gttaccatgt gcggggggcc gccggggggg cgagggggga 240
 ggaacgggtc caaaaaggag gaggggaacac aggaacgtag ggataaaaaa gccagatttt 300
 aagggggcct cggggcagtg ggacagggag aacttttaat ttccagaatt tgtttcctag 360
 ggggaagggg gccggggggg gtcggggggg gggac 395

<210> 521
 <211> 371
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(371)
 <223> n is a, c, g, or t

<400> 521
 ggacgagggg ggggtcgggg gggggaccgg gccctgctgg gtccctgctt ggcccattgg 60
 tcccccttgg gtgcccgggg gcccccttgg aacccaagg gcccgggggg ggaagggggg 120
 gggaaagggg gaaaaggggg acaagaggga aataaggggg gaccgggggt gtttttgggt 180
 ttcagggggc cccccgggc cttcccggt ttgctgggga gcaaggggtc ttttcgggac 240
 ctttgggtgc tgggtgggtc ccgccggtgc ccccggggtt tttgcgggggt nttccggcga 300
 aaaagggact gaagggttgg ccagcccct ttgggcccc gggggccaaa ggcgggatgg 360
 ggatggtggg g 371

<210> 522
 <211> 284
 <212> DNA
 <213> Bovine

<400> 522
 gcacgagggg ggggcgggg gccgggtttg gggcgcgacg ccgaaggcgt gggaggaagg 60
 cggagtgggg gccggccggg ggccgtcttt tgggaacggc aacgaacagg aagttggggc 120

ccccccgggc ccggggcgga cggggggggg gtgggggggg aaggggggtc gggggggggc 180
 ccggcccttg ggggggtttg tgggcttgaa attcccaaag ggggggaacc ctggccccc 240
 ccacataatt cttcctgggg gtgcaagggg gggggggggc gccg 284

<210> 523
 <211> 417
 <212> DNA
 <213> Bovine

<400> 523
 ggggacgagg agaagccatt agaggttggg ccccatgcac agatggaata gactacacca 60
 atcattcaaa caccctccct tcttggttac ttgacacgac ttgcaaata ggagaagaag 120
 aaaaaaatcg ctgcaccca accaaggaca ctgagtggca gagcaaacct ggcactttgc 180
 gtggaagaag atgcacctga aattctggca aaaagcaaga ccgggggcct gatgggaaga 240
 catggttatg ggccggaccc ccgggagcac ataaatgggg gggaccagaa tcagccctct 300
 ttaaagtggg ggatggaaaa gtgtatggga ctggaaaccc gggggctaag ggggggggtg 360
 ggggggtaaa ggttttaggg ggggggaagg ggggggtttt cgggtggggg cgagccc 417

<210> 524
 <211> 212
 <212> DNA
 <213> Bovine

<400> 524
 tgtctttcca cttcaggat gaccctttcc caacgacgtg aatctcgcaa ggcttcctcc 60
 cttttgttaa cgaatgggac gtctggcggg agagtccggg ggttcagcac acgcttgag 120
 gtggtgggccc ccatggggac ctgtactggc ttggccggct gtgtgtgtgg acggcgcttt 180
 cggggcgact ttgggggggc ccaaagtccc ca 212

<210> 525
 <211> 330
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(330)
 <223> n is a, c, g, or t

<400> 525
 ggcacgagga agtacttctt gtctgggaa aattcccatg ggatgggagg gacgcctggg 60
 taggtcttac aggtctatgt ggggtcgcaa aagaggtcgg gacggcgacc tgaagtgaac 120

tttcacatta aaggctggtc acccattggt tgcatacatt tttatgggtc tttgagtttt 180
gttaagggtc ttatgacttt ttttctgggg gcttttctg ggtgggctaa agagggttta 240
aagccgtccg gcctggcaat gccagaaaga cccaggggtt caattccctg gggttgggaa 300
agatcncctc tggaaaaggg aaatgggaaa 330

<210> 526
<211> 233
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(233)
<223> n is a, c, g, or t

<400> 526
aaaacatcac gttgggagaa ccgcctgggg tttgcactc gggngggggg tattttgggg 60
acctttactg ggcagctcct gaaaggcgag acacttgtga acattcaagt gaagcaaaag 120
cctttcatga ttacagtga gcagccgcc cgagccccgt gcttggcaac attcccccaa 180
ggatgggagg gcgggagggc ccattcctcc ggtttttttt tagctttttt tta 233

<210> 527
<211> 62
<212> DNA
<213> Bovine

<400> 527
ccgggaaccc aaagggattt tttctgtttg ctgagattat actatgcctg gagattctga 60
tc 62

<210> 528
<211> 482
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(482)
<223> n is a, c, g, or t

<400> 528
gtccacaggc gtgctgggct ccccgctcat ctactgctc ttctggatcc tcactgtctt 60
ctccatcgcg gccctgttca ccaagcgcta cagcatccgc cccctcatcg tggcgctcat 120
cctgcgttcc atctactacc tgggcattgn gccacgctc aacatcctgg gtgccctcaa 180

cctgaccaac aagatcgggg tcgtggggag ctttgtgggc aaccgtggca ccttcatccg 240
 gggctataag gccatgggca tggacatgga gttccttacc acgtgggcta cattctaacg 300
 ggggtgttttg gccctttggc cccgagcctt ttacggattc tgttttttac ctttttacgg 360
 gaaggacctg gaaaaggga aaaaaggga cccaaggccg ccaactgctg ccgccggtg 420
 ccccatcggc taccttttct ttgggggtcc ttccaagaac atttatcttg ggggccggtg 480
 cc 482

<210> 529
 <211> 491
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(491)
 <223> n is a, c, g, or t

<400> 529
 cgccgcgcac gccatgggag gccggggact gacgacgaag tcatacggtg agcgtcgtcc 60
 taatcggatg gaggatggtg gctgggagat gaatcgaag aattatatct gctggtgaaa 120
 agtttcatta aatggtgcaa ctccagatct caggaagagg gatacagcca gtaccaacgt 180
 atgctgagca cgctgtccca gtgggaattt tcaatgggca aaactttgct ggtatatgat 240
 atgaatctca gagaaatgga aaattatgaa aaaatttaca agagatagaa tgggtgcattg 300
 ctgggagccc atgaaaaaat tgctgagtgc aaaagccaat tcttcagcaa aacgatacaa 360
 aaaatggcag atagatgcac tggcaaggga tccacacatc agcagcccca acgaaaaga 420
 ctccggcctg gaaagaatag actcttaaaa ttaagagggn gaagaaacgg aaagaacgaa 480
 cgcccaggct c 491

<210> 530
 <211> 445
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(445)
 <223> n is a, c, g, or t

<400> 530
 gcacgaggca gaggtgcaac tttcttcggt acgtcccga tccgggttca tccgacacca 60

gcgcctcca ccatggccgc ctaagtttcg accccaacga gataaaagtc gtggacctga 120
 ggtgcaccgg tggggaagac ggtgccacgt ctgccctggc cccaagatc ggccctctgg 180
 gtctgtctgc aaaaaagggc ggtgatgaca tcgccagggc aacggtggtt ggaaggtct 240
 gaggattaca gggaaactga ccattncaaa cagacaggcc cagatggggg gggcctttgg 300
 ctttgccttg atcttcaagc cccaaggacc ccaggaaag aagaaaaaaa aaattaaacc 360
 aagaacattt ttttgagaat gaaattgccg gggagcgttg gggtttattg gaatttggga 420
 catagggaat cgggacggcg ggggg 445

<210> 531
 <211> 473
 <212> DNA
 <213> Bovine

<400> 531
 gcacgaggct gtgttctggg gagaggagca ccaactccga cattactggc tacataatca 60
 ccaccacccc aacagacgcg ccagcaggcg atacgtgctc tggaggaaga ggggcatgcg 120
 gatcagagtt cctgcacctt tgaaaacctg agtccgggcc tgttgtacaa tgttcagtgt 180
 ttacactggc aaagatgaca aggaaagagt ccatatgtct gataccatct ttccatctgt 240
 ccctcctccc agtgattggc gatttaccaa tgttggccct gacacatgcg tggcacctgg 300
 cctccacctc atccatcgaa cgaccacctc tgttcgctct ggctgggaaa aagagggagg 360
 tgccggtgc ctttctctc aacaaccagg atttaaaatt ctgccggccc gactttataa(420
 ggttcaaggt aaagaaaaga agcaacttta agaagaaaaa acgcttgatt ccc 473

<210> 532
 <211> 475
 <212> DNA
 <213> Bovine

<400> 532
 tgggacgagg gggggcctgg gggctaaagg gagaaagagg acggctcctg gggggggaat 60
 gggggtaggg atggccgctc ccgggagccc gcgcgaccgc gccgggaggg ttttgtggcc 120
 tgccggtccc ccaggggccc ccaaaggtgt gaaaggggga acgtgggcag gtcttggtgg 180
 gtcttggtgg ctggtgggtt gcccggtggg tcggggggcc tcctggcccc tcctgggagg 240
 aatgggttac ccacgcccc ccagggtcc agggggggct ccagggcaaa gatgggcccc 300
 ccaaggtcca ccctggcagg tattggggct tgttgggaag cccgggattc tctggaccaa 360
 gggggttttt tgtgaccaga ggggaggggg gacccgggcc ccaggggcct tcgggggctc 420

agcccactag aattgatgat tattggagcc caaggttgag gccccaggc tctag 475

<210> 533
<211> 484
<212> DNA
<213> Bovine

<400> 533
gcacgagggt gaggcggggt gggggcgga gcacgggtct ccagcggctc gactggggag 60
tttttggtg gagcaacggg gagcaccatt ggatatctgg acttggtatg acgagttttg 120
gggaattaca tcggaaccag agcttgattc tgatgaagaa tgatgattga attgggcaga 180
gagaccaaag atcttgatga ggtcgaagag gacgaggacg acgacgaggg ggccgaacac 240
aacgaaaaac accctgggtg gtgggggggg tgcagcaaga caaaaagacc accccaccgc 300
cggggggggg gacggcccca agggggacca tagtaagagg aagacaccag ccctccaaaa 360
ccatattaag caggaaacca aaaattactc gatgagcaga gtctgcacg gggcgcaatg 420
gttttgcg g aatgatgaaa tcggcttata aaatggacct ttgggctctg acccgaagaa 480
gttt 484

<210> 534
<211> 298
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(298)
<223> n is a, c, g, or t

<400> 534
ctgcctgcag gggcatcctg agtgtggatt ccactgtcag ctctctcct tccacctgtg 60
ctgtgactcc gagggatatg tacgttgac tttctccag aaaatctggg ccaagtgtg 120
tgaaccgggg gaatggagaa ggctagagg agaccacta ccaccttcaa agacctgtgc 180
ccagagaaac ccaagggggg aagaaaagct ggcacgcgg cgnggggtctc aggagatacc 240
cgatagagac tgacagcttt gatgtgccct gtaccccagt gctttgctta caggaggt 298

<210> 535
 <211> 459
 <212> DNA
 <213> Bovine

<400> 535
 gcacgagggg gtcctggaca gcataagcat cattgacacg ccgggggtatc ctgtctggag 60
 gagaagcagc ggcatcagca gagggtatga ctttgcggcc gtcctcgagt ggtttgccga 120
 gcgggtggac cgtatcatcc tgctctttga cgcccacaag ctggacatct ctgacgagtt 180
 ctgagaggtc atcaaggccc tcaggaccac gagaacaaga tccgtgtggg gctgaacaag 240
 gccgaccaga ttgagacgca gcagctgatg cggggctacg ggccctcatg gggcccctgg 300
 gaagatcatc aacaccccga ggggtccggg tgacattggc tctttgtccc accgctctca 360
 tcccgcacag cagctttgag ctgagagaga ctcttaagaa tcagcttgcc cgaagcgccc 420
 tagagctatg actataaagg gcggggccag gcagcgatt 459

<210> 536
 <211> 193
 <212> DNA
 <213> Bovine

<400> 536
 ttttaagtacg aggggtgaggt gagggggggg gaagcacgca atccaccggc cgactgtgag 60
 tttttggttg gaggaaggag agcaccatgg atactgagtt gaatgacgag ttcgggaatg 120
 acatcgacc agagtgggcc ggtggaggag aggatgttga aaagggctga gggaccaaag 180
 atgttgatga ggt 193

<210> 537
 <211> 467
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(467)
 <223> n is a, c, g, or t

<400> 537
 gcacgaggag cgccgctctg gccgcactgc gtcgcacctg agctccgggc tcctgctaag 60
 ccagcgccgc tgtgcctcc ctccagtcgc catcatgatc atctaccggg acctcattag 120
 ccatgacgag atgttctccg acatctacaa gatccgggag gtcgcggacg ggctgggctg 180
 ggaggtggag ggggaagatg gtcagtagga cagagggtaa catcgatgac tcgctcattg 240

gtgaaatgcc tcgctgaagg cccgaggcga aggggtacgaa agcacaggat cactgggtgtc 300
gatattgtca tgaacatcac tgcagaaaac agctnacaaa gaagccacag aagacataaa 360
gatacagaag gcaacaagga aactgaagaa aagacaaaga gaaaactttt gaagggggcgc 420
aaacaaacag ccaactgcta ttaaaacata agcttagggg aaaagat 467

<210> 538
<211> 484
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(484)
<223> n is a, c, g, or t

<400> 538
cttaattctt ctatgtccaa tgggaacaag cgatgctgga cccttttcga ttcacatgga 60
tgatatgaga tggacggaag ggggaggccg aggggtcgggtg ggaaagagca caatgagtgt 120
tatcatgcca tctgttggtc acagngttaa acttggaatg gatcttacga aggtagtctt 180
tccaacattt attcttgaaa gaagatctct tttagaaatg tatgcagact tttttgctca 240
tccggccctg tttgtgagta ttagggacca aaggatgcca ggaccgaatg gttaaggtgt 300
gaaaatgtat ttttcaccct ttcacgcaga agaaaggacg gtggccaaaa gccaccaacc 360
ccttgggcga aatttagggc actgacatac aaagaacgag agagggggca ggccaaagac 420
agtctggtt ccagaaaaga acattggggc ggcagttcca catccccctt actttttgcg 480
gggg 484

<210> 539
<211> 473
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(473)
<223> n is a, c, g, or t

<400> 539
tgcccgtgaa cctgctccga gccggccgca tcttcgtgtt cgagccaccc ccgggcgtga 60
aggccaacat gctgaggacc ttcagcagca tccccgtgtc tcggatatgc aagtctccca 120
atgagcgtgc tcgcttgtag ttctgtgtg cctggntcca cgcggacatc caggagcgct 180
tacgatacgc acccctgggc tgggcgaaga aggatgagtt cggggagtct gacctgcgct 240

cggcctgcga cacgggggac acgtggctgg acgacacaga caagggagac agaacatctc 300
gccagacaga tccccggtcc gggctcagac cctgtggccc atgctntatg gggcggggga 360
cacgagtcga cagcgtctgt acacttctctg acgccgtcac accgggttng aaggnggtca 420
gctggctgca ggcgagcaca ggacatcaag cggcgcatag cgaaggatgg cat 473

<210> 540
<211> 461
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(461)
<223> n is a, c, g, or t

<400> 540
gcacgagggt cattgctggt tctggatttt tggcacgtct ttgggtctca tgttgctaac 60
ccaacaccac aggacttaag gctgtcagga acagttctta tttgggattc agagcaatta 120
ctgaagaagg attatgttct tgtgagaaaa cgaatttatg attcagaaac ccctaaagac 180
aaggtactaa gcaacaaaat atgcaaacag atgttgntaa ttaactgtca tttttgtctt 240
acagctgttt gcagacaaag atccaaagac agcagattag ttttaciaag ggtatctgat 300
tattactttg ttgtgngtgt ctccctttgt ccttataata gttatatctt taatttacag 360
aaacttcggc ttgacactga gagaagattg gttaaagtcc tgtttacaat attcggtttt 420
ggcaggatga aaacgtactc tggttgctat tagatgactg n 461

<210> 541
<211> 467
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(467)
<223> n is a, c, g, or t

<400> 541
gcacgagggc cggctctggg tggtcaggcc ttgcgaagct gacctggagg agaacattaa 60
gaaaggcaaa aagtgcattc ggacccccaa aatctccaag cctatcaagt ttgagctttc 120
tggctgcacc agcatgaaga cataccgagc taaattctgc ggagggtgca cagacgggag 180
gcgctgccac cccccacaga accaccaccc ttccgnggag gttcaagtgg cctgatgggg 240

agggcacatgaa gaagagcatg aggttcatca agaccgcgcc tgccattaca ccgccccgag 300
 acatgactct ttgggccctg actacagaag atgatgggga caggcctaag ccgggcaggg 360
 gaccggaaca ttttgctggc ctgaatgttc cattattttg gtcccggggt tcaggcccag 420
 tttttaatgg gtttaaggga aaaaaaatcc ccaataaaa tgggctt 467

<210> 542
 <211> 398
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(398)
 <223> n is a, c, g, or t

<400> 542
 aattcgggct ctgtacaact agatgatcta cagggtctgt ggaattatgc acgattgtct 60
 attctatatt gttcacccaa ttatcttctg cgtaataatg gttgatactt gttgtcctgt 120
 ggggaaatat gttatgccgg tctacaattg cacatcattg taacgaaggc ggaaaacata 180
 aagatgtaga agcgtgggga agggctaaag gaaggaggct caagtgaaat taatgtgcga 240
 tgggggtccc tgcccccgct ttcccggggg ccaagaccta ccccgcccaa ggtgggttta 300
 acgaaagngg aacatcgggg cgaggagagg cggcgttttg ctccttttcg cctcttttgg 360
 tttcttttgt taaattaaaa aagtattgtt ggaaaaaa 398

<210> 543
 <211> 521
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(521)
 <223> n is a, c, g, or t

<400> 543
 gcacgaggac cccagggcct gatgggaaac aagggtggaa ccgggggggtg gttgggcggc 60
 tccagggcac tggtgggccc attatgggtc cttagcggga ctccccaggg agagaggggg 120
 tgcgggctgg gcattcctgg aaggcaaggg gagaaaaagg gtgaaaactg ggctcagagg 180
 gtgacatttg ggagcccctg gtagagaagg tggctcgtgg gggcttctgg tggctattgt 240
 gggctccttg gccctgctg gagccaaagg gggaccggcg gtgaaaactt gtcccgtgg 300
 ccctgctggc ccctgctggt cctcggggta gccctggga acggtgggga ggccggggcc 360

cgctggcccc aacgaatttg tggtnccggt gggctggtgg tcacctgtgc taaagaaaaa 420
aagaacaaaa gaccaagggg aaatggcctg tggccccag ccccggggac cggcggccgc 480
tgccaaagcc ccctggcctg cggaagcggg gaggagggcc c 521

<210> 544
<211> 466
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(466)
<223> n is a, c, g, or t

<400> 544
ggacaaaatc tacttcatgg ctggggccag caggaaagag gccgaatctt ctccctttgt 60
tgagcgactt ctgaaaaagg gctatgaagt gatttatctc acagaacctg tggacgaata 120
ctgcattcag gctctttccg gttcgacggg aagaggttcc agaattgtgc caaagaagga 180
gtgaagttga tgaaagtga aaaaggagga gaggcgcgaa agcagtgaga aagaaattgg 240
gcctctgcta aatggatgaa agataaagcc ctccaggaaa gacgggaagg ctggggggct 300
gaccgcctga cagaagctcg ggggcctgga gccgccgncg gggggtgggc actgagaggt 360
cagaaagcca gctcccgag cangcctctc accatttttt gcggccaaga aaattgaatt 420
acccacccc cctatcggcc gccgggggga agagagaaag acaaag 466

<210> 545
<211> 455
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(455)
<223> n is a, c, g, or t

<400> 545
gcacgaggat ttagtgagat ttatgctctt taaattacat ccgtagatac aatgtttatc 60
actctaaaat cattatatag ttttataatc atctatgtat ctagaaaaaa tgatttatta 120
actgtaggat gaaagacat ttggcagttt ccagacttt ttgactttat cagattataa 180
ataaactatt actgcttaca taatgggggc ttagtggttg ctgttttgag gtctcattct 240
taaatttttc cccttctata atggattatt aaaaggatat tatatataat tggatattat 300

aaagggttca tactaggctg aaaagatcta ggcaaaatta aaatatcttt ttgtgagaaa 360
 ctataatagt attatttggtt ttcacaaaac actccatgac tcctcctctt tcaattataa 420
 tttaaaccctt caaaaccctg accttggtt ggggn 455

<210> 546
 <211> 479
 <212> DNA
 <213> Bovine

<400> 546
 ttaaaaaaaaa aaaggaagga aggaagaag gagacaggaa ggaagtattg aaaaaaggat 60
 aaagagcaga aaggaaagga ggaacagaag gaaaaagcaa ggaataaata aatcacagtt 120
 acttgaaatt cataatcaga agaaatgaat tatatctcca gcatatgttg tataactcta 180
 tgctaataaa tttgtagatc tattagaaaa tgtgtgatta ataatgata caagaaaata 240
 cagaagattg gcgttactat gaaagaaatg aaatattggt tagtttttct tgaaagaggg 300
 tggggggccgc tgatttttta gggaattctt tatgctttct gaacagatag cctgggtaat 360
 taaatactta gatataagaa aaagaaattg taggtatttt gggaggcact tacatgatta 420
 aaactaagaa cccaaggct gaccattaga caatttgga atctaattta aattcaacc 479

<210> 547
 <211> 451
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(451)
 <223> n is a, c, g, or t

<400> 547
 gcacgagggc gaatcgaga gctctgcact tcgtgttcaa aggggaaacc gcttcgagac 60
 ggcgtgtttc tatcgcatg tcctggggat gaagattctt cggcatgagg aattccagga 120
 cggctgcaaa gctgcctgta atgggcctta tgatgggaag tggagtaaaa caatgggtggg 180
 gtatggacct gaggatgatc actttgtcac agagctgact tacaattacg gcatggcagc 240
 taccagcttg gcatgacttc ctggtatcac ggnggctcca ggcagctggc agcacgctag 300
 aagctgaggg gcgctcagga atggagatgg ggggttgac caagcccctg agattttagt 360
 ttttgcgac gggcccccta ccaaccgata aagaacttgc ggggcgactc aaagcctgac 420
 acggcctact acgggagaaa tttgagagt g 451

<210> 548
 <211> 289
 <212> DNA
 <213> Bovine

<400> 548
 gcacgagggg cgaggctata ggtccatggt aatgctcaag aaatgtcatg acattgactt 60
 tcattagaca aaaaacagca agcattttta aaccctgggt gggccgtttt atttttcttg 120
 tgaatttaaa aactttttta actttttttt aaggggggga tgagaggggg accggggggg 180
 tttttttttt ggcttttggt ttttaaccagg gggacttcgg gcccaaaaaa cataaataca 240
 ttggggcaca aggagaataa gggaaaaaaaa cataaacctt tggggcaag 289

<210> 549
 <211> 143
 <212> DNA
 <213> Bovine

<400> 549
 gcacgaggat aatatcgtag gtttataaaa cctatttata acacttttta catatatgta 60
 catagtattg tttgctttac gtgttgacca taagccttgg gttgaacctt aaaggagcta 120
 aggaactgga aatcttaact tat 143

<210> 550
 <211> 239
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(239)
 <223> n is a, c, g, or t

<400> 550
 gcacgaggcc cccgcccatt gctagcctcc tgctcctgct tctctgcctt ggttgggtgt 60
 ctaccttcca ggggcccatt gctgcagacg tgggaactgg ctcttctgag ctcaagtgtg 120
 cagcgcacat cgcgggacct gtctgtcag cagcctgagc tgaccgtcct cctcccagg 180
 gccccgcggg ncacagagaa gaagcccgcc cccccgggcc gagaggcca agggttgga 239

<210> 551
<211> 464
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(464)
<223> n is a, c, g, or t

<400> 551
tgggtttttt ggaaaaccaa acatgcttta tttcattttt ttcacaattt atttaaacad 60
ctcacatata caaaataggt acaatttaat ttttctgctt gtcgagagaa caagacttct 120
ttggaaccat gggagaggat gaaaatgaga ctggcaaaga acaaagctg aatttaaaga 180
agaggacaat gttgggcaaa tgatccactt actttggggg aataagagga aaggactgat 240
gttaagacaa tgaaaaaaaa aacacaaaca gtcacagcg nggaggatct ttctcaattc 300
cctagcacat caacattctc agaatctgaa aactggtatt agcacctgga ttgacaaaa 360
acaaatacc actctctgt cagactgagg gggacaacca cgaagggttt ggggagttaa 420
cttgagtggt gttaactccc tcgggagaat taagcccggg ggca 464

<210> 552
<211> 453
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(453)
<223> n is a, c, g, or t

<400> 552
tgagagccca caaggaccac agtggagat cctggcagaa aggagagtgc caccagcac 60
ccatccctca cttccatat tcctttctca acacctgcta gggcctggca aaagagcttt 120
tcccagaaga cttaggggaa accaaactga tttttttttt tggccaagtc atacatcttg 180
caggatctca ttcccaacc agggactgaa tccagccac aacaataaaa gcgctgaatc 240
ctaccacta gaccaccagg gaaatttcca aactgatacc tagaaggggg ngggtattat 300
ggagtttagg cttctgagc taaaacacn caacctgcta ctgtatggga aaggnaggga 360
ccacacagga gaagaaccac ctgagccctg gaatgggaag aaaaattaca tgtcagtttt 420
gggcggaaat caggccaaaa gaaagagacc ctc 453

<210> 553
 <211> 451
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(451)
 <223> n is a, c, g, or t

<400> 553
 gcaagatgat gacttcttgg ccaccttgaa agagctggaa gcaaccctcc ggacccagag 60
 cctctctctg gagtgattcc tgaagggaag atcctgaaca acacctacta ccaagaatgc 120
 ctcttctacc tgcacagcta cagcaggccg ccaagagcag cggggacgca ggggtggcag 180
 acatctgctc ccagtggctg ctgacaagcc gcagccgggg tgcccatggt tcggcctcca 240
 gcagtgaccc tggctgcagg ccagacagcg nggggcagga ggatggcgcc ttccagctct 300
 ttctccgggg ggcaggactt cctggctcac ccaggtggaa ggcgggaagn acccacctgc 360
 atctgagcag atggacttcc gcaggccagt ttgaaaagtg aggcgggggg ggtggcggga 420
 gccgccttta ccagaggagg ggggggaagc c 451

<210> 554
 <211> 472
 <212> DNA
 <213> Bovine

<400> 554
 cttttccaaa cacgggagcc aggatcatgc tgttcactgg gggaccccc acccaggga 60
 cctggcatgg ggggtggtag atgaattaa ggttcctatt cgttcctggc atgacattga 120
 gaaagacaat gcccgcttca tgaaaaaggc aaccaagcac tatgagatgc ttgcgaaccg 180
 cactgctgca aacggtcact gcattgatat ttacgcctgt gcccttgatc agactggact 240
 cctggagatg aagagttgtc caatcgact ggaggggtaca tggggaggga gattctttca 300
 acacttctct cttcagcaga cattcaaaga ttttagtaag atttatggaa ttccgatggg 360
 ctttgtgtac ttgaagaaag accaggggcg gagggcgga gcatgacctg ggggtttaaa 420
 gggaggacgg ggggcaaaaa gactggggcg ggcagggcaa ggaaaatggg cg 472

<210> 555
 <211> 480
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(480)
 <223> n is a, c, g, or t

<400> 555
 cagcagcagc agcagcagca gcagcagcct cgggggggggc ggcagcagca gcagcggcgg 60
 ggcggcccg gcgggtgttt atgtggggtc gcgggggtctc ctggcagcat ggcggactac 120
 ctgatcagcg gcggcaccgg ttacgtgccg gaggatgggc tactgcgca gcagctgttc 180
 gccaacgccg acgtcctcac ctacaacgac ttcctgattc tcccaggatt tatagacttc 240
 acagctgatg aagtgggacg tgacttcagc cctgactcga agatcacact aaagacgcc 300
 tcattctatc ccccatggac actgngacgg aggtgacatg gccttgcatg gcttgatggc 360
 ggtatgggtt catcacacac tgactcagaa ttcagccatg agggcgaagg aagaaaatga 420
 caggctcatc agggccgggg gctaaccgct ctacggggga gggcgaggca aaccggcgga 480

<210> 556
 <211> 470
 <212> DNA
 <213> Bovine

<400> 556
 gcacgagga tcaatggaac agatggagac acttttcacc cgctaatacac caaagatgaa 60
 gtcctttatg tcttcccatc tgatttttgc aggtcagtgt atataacttt cagtgacttt 120
 gagagtgcc agggactgcc tgccttgagg tataaggggc ctgcagaaat attagccaat 180
 acctcagaca acgctggctt ctgtatacct aaaggaaact gcctggggtc aggaggtttg 240
 aatgtcagcg gctggaagaa tggcgcacct atatcatgcc tccccacact tctaccaggc 300
 agatgaaaag ttggctctgg cctggaggca tgcattcaat agggatatca tgggagcttg 360
 gggcatcaac ccctgctgga taccctagag cagcagaggt ccaataatgg tatgtagaaa 420
 ataatgactc atgaacagaa aattcaaccg ggttcccagg gggaataaaag 470

<210> 557
 <211> 468
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(468)
 <223> n is a, c, g, or t

<400> 557
 tcggagtttg ccacttatcg ggcataccttg gtgtccgcag cactctctcc ctctctctag 60
 ggcggcgacc tccggcggcc ggaaagtcac catgtccatc ctgaagggtcc acgccagaga 120
 gatctttgac tctcgtggga atcccaccgt tgagggtgat ctcttcaccg cgaaagggtc 180
 cttcagagct gctggggccca gtggcgccnc aactggaatc tatgaaggcc tggagctccg 240
 ggacaatgat aagacgcgct acatggggga aggggggtca aggctggtga gcacatcaat 300
 aaaactatgg cgccgccctg ttagcagaag ctgacgcggg gagagaaaga acgacagcga 360
 gataagagga aggacaaaaa aggcagttgg gcgacgcctc ggggggggtg ctggtgcagg 420
 tggcggggga gggggccccc acccccacgc ccggggggag ggggggaan 468

<210> 558
 <211> 190
 <212> DNA
 <213> Bovine

<400> 558
 gcacgagggt tgggggtccg gcccctcgct tctaccctga ccaaaaccga agtcctgacg 60
 tgttgggggtc cgccccctc gctttttacca agacaaaaac tgaagttctg acgtgttggg 120
 ggccggaccc tctcttctac ccacactaaa accgaagttc gacgttttag gggggcactg 180
 ggcccgaatc 190

<210> 559
 <211> 472
 <212> DNA
 <213> Bovine

<400> 559
 gcctaatttt caaaagaaaa accataaagt tagctgaata gtttctttat ttacacattg 60
 aatcacaact gtccacttag aagatTTTTTg ttaaaaaaaa ttgtttatgt gtctttacac 120
 taaaacagaa cttaaaagat gaattttatg gctcatgtaa cctacaagggt tgagagcagt 180
 tataattttt actggcctag cgccattaaa aagtatttaa gattatagta ggaagtatgt 240

aattattcat ttatattacc ttaaacgatg gatgaaccat cacacatttc agccattaaa 300
 aggaaaatag agcatcatac atgattcaga gacaagcagc gtatcactat tagactaata 360
 gaattttgtt atatttccac ttctgttttc agcggacaaa gaaaacagtg gccgcctgct 420
 tgattaataa ccccaaacct ttgcttttag gcgaaataaa cgaatccaac ca 472

<210> 560
 <211> 478
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(478)
 <223> n is a, c, g, or t

<400> 560
 gcacgaggct catgcctgtg ctgctgcagg gccaggcccg actggtggaa gagtgtcatg 60
 ggcgcggggg caaagctgct ggctgcgat ggcaatgaaa ttgacacat gtttgtggac 120
 cgacgaggga cagctgagcc ccaggcacag aagctggtga tctgctgtga ggggaacgn 180
 agctctatga ggggggctgc gcctccacac ctctggaagc tgatattcag tcctggggct 240
 gaatcatcca ggctttgctg gaagcacggg gnggccgttc ccacagaatg aagcccacag 300
 catggatgtg gtgggcccag ttgccattca ccgctgggct ttaagccgag aatttatcct 360
 tttcctggcc atggggggtc acggtcgcgg ccgcctgtcc taccggctta tgccggacct 420
 ggtgcttctt tgtgaccggg ccctgcatga agaatccaaa agtgggggct gggcccg 478

<210> 561
 <211> 406
 <212> DNA
 <213> Bovine

<400> 561
 gcacgagggtt acaatgccag cttgggaaaa cagagagtgg ttttcttcta aaggcgatct 60
 gacgaactca aaggtcctag agaaggaggt gtccgcagc cccaccacca gcagcatcac 120
 cagcggctac ttttcccaca gtgcctccaa cgccacctg tccgacatgg tggtccttc 180
 cagtgcagc tcagatcagt tggcccttcc aacgaagaca cagattccag cgagcatccg 240
 gaccgtccct tgggcagatt tcagaccatc ttcaaacaag agttgacaga actagaaaga 300
 gcttgggaaa ggatagatga ccgggtgcc ctcagaaaaa ggccttacca aggggccctt 360
 gccccagtt ccgggaaaac tcaaacctct gtggacgctg gttaga 406

<210> 562
 <211> 481
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(481)
 <223> n is a, c, g, or t

<400> 562
 cttttgtcaa ttgtacctcc ataaaactgg gaggaaatga acaataaaca gtaaaagagt 60
 cagtgttttt gtttttttaa gaacagggaa tctcagtgt actcttacac tgtttcagag 120
 aacaggaaaa taaggaatac ttttcattgt tttatgaagc aaggttaaca ctagcgccga 180
 acctgatgta aagatttact aaaaagaaaa aaaataaaca tagctcagtc ttacttttga 240
 tagctacagg ggtaatttgg ccttctaaga aaagtttgta tgtttttagat tttatactga 300
 aggattaagg ggaagatgtc atgatgactt ttttttttctc ttgcctgtcg tttttacttt 360
 aaatcttaga ttgaatatat atacctagat tttggtctag gtggccgacg cttcttttta 420
 ggggtctggg aggaggaggc cgcgaccttt ttggatatta attgaaatgg ggatggaccg 480
 n 481

<210> 563
 <211> 409
 <212> DNA
 <213> Bovine

<400> 563
 aggcacgagg gcggggggtg agggagcgac cgggggccga gtcgccggac cccggccggg 60
 gcgatgtggg aggcgggagc cggtggagct gggggcccg ggctgttggg tatactgttg 120
 gccctctcgc tgtcgggggg ccgtgccgcc aagagcgacg cggggcttgt gacctgcgtg 180
 tcggtgttga aacttgtaa aacgcagaaa cgggggcggg gtgcactcgc acgaaataaa 240
 atacgaatcc gccaaaggcca agagcggggg gacgggggga ggggcccaag aacccccaaa 300
 gtattgcggt tcccgggggg acggaggcgg agggcccgcg gtccccgggc cggggaaagg 360
 gggagctgtc cacggctaac gaaaaaccgc cccccattc ctgccgctt 409

<210> 564
 <211> 404
 <212> DNA
 <213> Bovine

<400> 564
 accgtggccg ggtggccggg gtaccgggg agccaacccc gtccaggtgg aagtaggaga 60
 attcgatgat ggtgctgagg aaaccgaaga ggaggtggtg gccgagaacc cctgccagaa 120
 ccaccactgc aaacacggga aggtgtgcga actggacgag aacaacaccc ccatgtgtgt 180
 gtgccaggac cccaccagct gccctgcccc catcgccgag ttgagaaggt gtgcagcaac 240
 gacaacagac cttcgactct cctgtcactt cttgccacca gtgcacactg gagggcacca 300
 agaaggccac aactccactg actacatgga cttgaaaact cccctgcgg gattcggtgtg 360
 ctgaatccct tggctgggaa ggttaagaag gcgggcgccg gcga 404

<210> 565
 <211> 472
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(472)
 <223> n is a, c, g, or t

<400> 565
 cagcattcca ggttgctgac tctttcagca gagccgggcc tacgcttttg caaccatgtc 60
 taaaggacct gcagttggca ttgatcttgg caccacctat tcttgtgtgg gtgtcttcca 120
 gcacggaaag gtggaaataa ttgccaatga tcaggggaac cgaaccaccc caagctatgt 180
 cgcctttact gataccgaac ggttaatcgg tgatgcagca aagaaccaag tcgcaatgaa 240
 tcccaccaac acgggttttg atgcccacg acttattgga cgaagatttg atgatgctgt 300
 tgccagtctg attgaaacat tggccctcat gngggngaag agctgcagcc taaggtcagn 360
 agaaacaagg aagacaaagc tttaccanag agtggacctg gcctgcaaga gaagaaacga 420
 aagccacttg gagacgttcc agctgggcca gccgcttttt agactaagga gg 472

<210> 566
 <211> 497
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(497)
 <223> n is a, c, g, or t

<400> 566
 cggggcccga gggggagcct atgggctcag gggcccaact gggggatccc gccggctggt 60
 gctgggtggc ccatgggccc tgggcccggga ggactcgggg aacctggctt cggcgtgaan 120
 gcgtttgact cgggtgcttg ggtgatacgg cngtcttgtc atccgggcct gtgcagttgg 180
 acgtatcccc ttgcacaccc taccccaagg aagaaggagt tgtacgcgtg tcagagaggt 240
 tgcaggactg ttttcaattt gtcagtttgt ggatgatgga atttgattta aatcggacca 300
 aatggaatgn gaatctgcat gtacagaagc atattcccaa tctgagagca atagcttgcc 360
 atctggtgcc agacagcggc aaccagaaag gacagagcac tatggccgag caaaagcact 420
 actttccttt acttgaagaa atctgaggaa agggacctga caaagctata ccctgcgac 480
 ttactcagc gtgtggt 497

<210> 567
 <211> 386
 <212> DNA
 <213> Bovine

<400> 567
 gcacgaggct ctgaactttt tacgaagaaa tatggaaaaa ctttgtatgg tgagcttcat 60
 gttgaagtgg tttttttttt tgttggtttt ttgttttttt aatttggaag atctggaaag 120
 ttagcttggt tttaataggg gctatgctct acactccctt cccctcccc cgccccgccc 180
 accccccacc cactcttaa cgccattag ggttttactg acccactggc tttaaagttc 240
 cactctgttt actacatcat aatgctgggt tgcggccttt ttgttttttt atattataaa 300
 aaaagaaaag tggggatggg ttggagccca gcgccctgac cttgggggga tgtaacaggc 360
 ccgggaccgg ggctcgggcc ccgacc 386

<210> 568
 <211> 455
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(455)
 <223> n is a, c, g, or t

<400> 568
 gcacgaggca tgattaatca cactgttcgg gctggccagt ttttcatgca tgcaagcttg 60
 acaattgagc acagtcaggc gtttgtatta aaaacgaaaa agtgaaaaaa caaattcaaa 120
 acctactcag agggttctag ttcaaattgt tagtgtaaata ttagccgggt ttactgagaa 180
 gagcngttaa aattggctca cctcaggagc ccgggtgggta actggccagg cggagcgccc 240
 ctgctgcggg cgggcctctc taccgcccct ggcgaccgtg acgcgctggc ggggcgcccg 300
 ctgggtcggg gggggtgccg ggtggctggt ggaagggggc aggtttcaca ttattcaatt 360
 taaaaaaaaat ttttaggaga tttgggcttt gtttaaacct cgacgggctg ggccgcgggg 420
 gggggggggg cccacaacc aaaccgggga agaaa 455

<210> 569
 <211> 454
 <212> DNA
 <213> Bovine

<400> 569
 gtttcggggg ccaagcgggc tgtttactta tgccggaaaa gggaagtta acatccagcc 60
 caacaaaaag ggctccacca gaagcgcgcg tggccaggaa cctggaatga ttgccgaagc 120
 acaagaatta ctccatgctg cagctgatcc gggccattct gaaagacca caagatccca 180
 ccagtgcttt tgggtggttg gcaaccagac tgaaaagaca ttattttacg agaggacttg 240
 ggggactgca ggcccgcgcc ccgccgttta tgtttggttt acctggtaac cccaaaagc 300
 cccggggacg gaaccgggtt ccctggccct cctgtttttc tgggcggggg tgcagggggg 360
 tgcccgtgac tttgggtggg gactgggggt tgaggggcag cggcacctcc ctgccccgc 420
 cccggccca ggttgagggg ggttcttccc gcc 454

<210> 570
 <211> 436
 <212> DNA
 <213> Bovine

<400> 570
 gcacgaggct tctttcatgg attgtatatt gttttccttt atggctgac tcacactaag 60
 catgcttccc tccccaccca aaagctatct cttaaaatcg gatgttttaa aagaaaaaaa 120
 aaaaccctca gattctcaac aggaaacagt aaactggtgt ggcagtagtt cagaaatcac 180
 aaaagataca aatgtaaaca aatcactatg caaaagataa aaaaggaaca aaaggaacaa 240
 atctatggac agaagtaaat gctaagagac cggaatcatt ttgttttcac cacaaattgc 300
 aagaaaagaa gaacaagctc gacggaaacg aacaaagaaa agataaaggc ccgaccagga 360
 taattaaaaa gaactggagg ggaagaggga aggggggtcc ggggtacgtg gacctatcag 420
 gggcgggcac aggagc 436

<210> 571
 <211> 417
 <212> DNA
 <213> Bovine

<400> 571
 cgttgccgtc gccatgaccc gcggtaacca gcgcgagctc gcccgccaga agaatatgaa 60
 aaagcagacg actcgggtta gggaaagcgc cgagatgacg ggctttctgc tgccgcccgc 120
 aagcagaggt agccccaggg aggggagggg aggctggggt gagacctcgg tctggtttct 180
 gagtgcctcc gggctctgacc ttaagggcaa gggcgggagt tcacattcaa atgcagaaga 240
 gggtaggaca gcccgacttt tgggcctctt gctgccattt gccctccttc ccccaacctt 300
 tcctgggggg ggggggggga ttgggacaaa accctggccg ggtggccgac tggaccttg 360
 caaagcaaag aaacgatgct tgggccactt tttcctgggt ccgggggaac acaccat 417

<210> 572
 <211> 317
 <212> DNA
 <213> Bovine

<400> 572
 aacactttga aagaatttga ccaataatgt atgtttggct tgtgctttag ttttgtaagg 60
 catacttttt tgcttgaatt tctgtgtcca ggagagtttg gatgtttaat ggttcttgag 120
 ctaattttat aatatattta atatattacc agttgagata tataaaattg gacatattga 180
 aataaaaacc aggggctaag gagggggaaa gacgggggtac agggagaccg gagggcggta 240

cccatatgtg taaaggcatg acgaacaacc acccatttac cctcctgggg ttcggtggag 300
 aaaaaaaaaag aaaactg 317

<210> 573
 <211> 468
 <212> DNA
 <213> Bovine

<400> 573
 gctgactatt ctcaaccaac cataaagata ttggtaccct ttatctacta tttggtgctt 60
 gggccgggat aggaggaaca gctctaagcc ttctaattcg cgctgaatta ggccaacccg 120
 gaactctgct cggagacgac caaatctaca acgtagggtg aaccgcacac gcatttgtaa 180
 taatcttctt catagtaata ccaagcataa ttgaagattg ggggaactgac ttgttccctt 240
 aatatttggt gctcccgatt agcatttccc gaaataaaat ttaagttttg gactcctcct 300
 tcttattcct cctatccctg gattcttttt ggggaggggg cgggaaaggg gaccggggcc 360
 cccctttgag gcacctagcc tggcgggggt tgtgtttaac tttttttttt atttttgggg 420
 tttttatttg gggccttaat ttttaaaatt ttaattaaac ccggaggg 468

<210> 574
 <211> 552
 <212> DNA
 <213> Bovine

<400> 574
 gagacattcc tccaccttaa ggagggggag cgggggcttc catttcctcc ttcctcctcc 60
 ctctcctcctc ggagctcccc acagcgctcc ccgggcccga ggcacgccac cacatggaag 120
 gaaaggccgt tgaggcattg ttgttccgag ggatttttgg gcgggggttc atgcggggcg 180
 cccactcggg agccccctg ggccttttcc agccactccc cacgggcccg gggctgcggg 240
 ggggcccggc caacatacaa gaaccggggg aggacgcctt atgagtgttg ctgtgggacg 300
 ggagccgact tctgacctg gggacatcaa cgggcaccac ctcccaccaa ccacatgggg 360
 gggggggggc tgggaaggct tggaggcggg gggggccggc atgaacaccc tgggtcaaag 420
 ggccggtggc gggggcgggg ccccathttg gaccccgcc gcggggggag ggaggcccc 480
 ctccggcccg gggcgcccc aggggagggg ggagaatttg gaggggagag aatgagccgg 540
 ctgcccaccc ca 552

<210> 575
 <211> 524
 <212> DNA
 <213> Bovine

<400> 575
 ggacgagggg tacatctacg aggatccagc tgtcggggcca tcacggggct ccagcagggc 60
 ccgggctggc tctgggggcg cagcatcgtg ccagagggaa ggcacaacgc accaggcact 120
 tcagtgcgca aagtccggaa ccctccaacc aaaaccagat aactacgggt caagatgggc 180
 gaccttggat tgggggggtc accttcggtc ctccaaagtg gggaaaaaag acaagacaaa 240
 ggtcgggtgc cccccaccat cttctttcca ctgtggaccc ctgggggaag ggaggggttc 300
 cccgggttcc agccacgaga ctggccgact gccagtacct tttctccggc cccacctgtg 360
 ccggggggcc cgctgggggg ggctttgacg ggggatggga ggggtggacc ccaggagcca 420
 taggtccag agggcaccgg cggcgggcag ggctcaccgc cgctggggcc ccaccgccgc 480
 cgccccccg cgcgccaaaa ggggccgggg agggaggagc ggtt 524

<210> 576
 <211> 475
 <212> DNA
 <213> Bovine

<400> 576
 tttttgtcta ttttgttcgt tgaagtatcc caagcaccta aaataatgta cacagcaggt 60
 ggggtgtattg aataagggtg ataaatattt atgagatacc cagtatgtat tgggacaaat 120
 atgagcattt agttgtggca tggagaatga gaatgacctt tggcaaggtc aaagagagtg 180
 gaagaagcag agtttctcac ttcagaattt taaaaattta ctcaagggga agcgggaggg 240
 aagaagccac cgaggaggcc tcttgtaact gccttgatat cgccaaagca cagaaaaaaa 300
 tttgggggtt tgctgctcc ccttattgtg ttggcctaga ctttatatat catatggaac 360
 ctattcagca acaacatttt agctggctga taagagacct gaggagcgag gtactaacca 420
 aaacgagccg ggggccgcaa aaaatctgga taagaaaagg caacacgaac agttc 475

<210> 577
 <211> 331
 <212> DNA
 <213> Bovine

<400> 577
 gcacgaggct ttatTTTTga tattttgtat gagcttttta taagttttgg attttgacct 60
 cttatctgtc atactgtgtg caaatgttct ccatttcagt aggttatctt ttcattttgt 120

tgatagtttg ctttactgag aaaaagagat aattaggacc catttattga ttttatgctt	180
ttattttcttt tgcctcagga gacagatcca gaagaatatt ggtggaatag agggaaagag	240
gggtttgctt ggcttttttt tagaggttta ttgcttaaaa ctgcattaa gtctctattt	300
gatttggggt tattttgctt agaatgagaa a	331

<210> 578
 <211> 454
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(454)
 <223> n is a, c, g, or t

<400> 578	
gcacgaggca ggtttacaac ctggtactga ctacaagatc cacttgtaca ccttgaatga	60
caatgcccg agctcccctg tggtcacga tgcctccact gccattgatg caccatccaa	120
cctgcgtttc ctggccacca cacccaactc cctgctggta tcatggcagc caccgccgcc	180
aggattactg ttacatcat caaagaccag aagcctgggt cccctctaga gaagggcccc	240
tcgccccgc ctggggncaa agaagcttat ataatggcg gaaacagaaa caaaaaacaa	300
ccaagccatg ccctaaaaac aacgaaaagg agccttgatg gaggaaaaag aaaagagccc	360
cagcgggacc ctccaccaa cttatggcaa aattggtggt cctccaagaa aaaacccttt	420
taccaaccgg ttgaacgaaa gtttaattcc ggct	454

<210> 579
 <211> 464
 <212> DNA
 <213> Bovine

<400> 579	
tttgataga gctgatgtgt gggcttttag aaacataaat aaataataaa agatcaaaaa	60
gcaggaggca catgactata ctggaaaata taaaagccac atctgtttcc atagttgcct	120
tttgacagcg attggcaaag aaccattgaa tgtattctca cagtctttgc ttatgtcatg	180
gaacctttgt ccctaactct cctttcctga gggatcggg gcagaagggt tgaattatga	240
aattggggtc tgtaaggatt tggtcagctt gagttgttgc tctttagttg gtttcctgtg	300
ctttcatggg acggtgagct ctgttagaag atttcaagcc tctaaccacc tattatgggtg	360
gcagcgagga gcgctggact gcgcagacca gaggccgtgc ttggtgctac acttgggtcat	420

atcctaatta atggcctcat gggacgttta tttattaatg tgtt 464

<210> 580
<211> 464
<212> DNA
<213> Bovine

<400> 580
cacagcctcc tttcagctgt ttctgtctca aagtctttgc taaaacattt ctctctgcta 60
cgatcctctc ccattctgcc cccaacttca tctcattggt gctgtcatgt attagtccaa 120
atgttacttc ccaaggaaag ctttctgaca ggaccaaagt aagtctgcat ttcatatgct 180
tcagagccac ctgaactctt aaagctattc actattttat gtatttaggt aatttagtga 240
ttgaggtgtg tctctcttat ggacttttaa gtctagagaa cataagccct ggctcttagc 300
ctctctgata tcagagccca gacaaagatg aagaagaacc actcatccgg catcagaaag 360
ggaaattccc cagctccagc ccagatgggc ttctgccagc agggccggga tccgggtaac 420
ccggccgata ggccgggaatt agccgagctt tgggggagcg gctt 464

<210> 581
<211> 365
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(365)
<223> n is a, c, g, or t

<400> 581
gcacgagggg gctcccggca gccgcgggtc tctcagtga tggggcgccg ctctgggtcc 60
cgcccttgct ggtgcgggag ggggggtgctg gcgcgggagc gctttttcng ttttggtg 120
ctggcgggga cttcggggaa agggaggggg aatgcgggag cagaggggaag gcaccgcccc 180
cccatgggg agggctggtg gcctccgggg cgggagattc aggggcccgg gggcccgcgg 240
cgggaccgga gccccggga ccctttctgc ccaaaccatg agcattcttc aaagaaagca 300
atgggttggt tgggtttttg agaccctaaag gccccagga ccctgcccgg gaggcagcat 360
ggggg 365

<210> 582
 <211> 475
 <212> DNA
 <213> Bovine

<400> 582
 tagtaactat tggcattaac caaccttacc tagctttcct ccacatctgt acccacgcct 60
 ttttcaaagc tatactattc atatgctccg gttccattat tcacagccta aacgacgaac 120
 aagatattcg aaaaatagga ggcctattta aagccatgcc attcaccaca acagccctca 180
 ttgttggcag tctcgacta acaggaatac ctttctcac aggattctac tccaaagacc 240
 taatcatcga agccggcaac acgtcttata ccacgcctga gcccttctta taacattatt 300
 gccactcttt taaggtatth acgcaccgta ttatthtttg gacttctgga cacccgattc 360
 ctacctagta aattaagaaa caccctctg atcaaccttc aacgctacta ttggagccgt 420
 tccagattca tattccacat atctcacac aatcccaata catgcctatc ctaac 475

<210> 583
 <211> 486
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(486)
 <223> n is a, c, g, or t

<400> 583
 ggtctgcggc tccaagtatc ttggggcggg gcgaggagtg ccctcgacca cgtgtggatc 60
 tgctcgtgct ctttcccgnc cattgggcct cctgtgtgac gtgggttgac atggggcaca 120
 cctgtggggc ctgggggtgct gacctctggc taccctcgac ctgaccaacc agatgtgggg 180
 gaaggaatth agggctgth ctctagcccc cacggagcca ccagngaggg gggctctgcc 240
 ccagacctct ggaccaagat tatacagggg aaatgaaaga gcccagcac tctgccaga 300
 accttgtcac aagaatgcca aaacgcgcac cggccacgca ggcaacaggc agcctgggaa 360
 ccaagctgga aacattcttg ccctgggtct gaggggaccc atgnagcatc tggctattga 420
 agaagaaaaa aaaagggggc caggcccttg ctttgaaagc caccctttac tttaaaggct 480
 aggttc 486

<210> 584
 <211> 271
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(271)
 <223> n is a, c, g, or t

<400> 584
 ggacgaggtg agagccctgc aggtgctggac cgggaagttc aggcccgagcg atgagcacca 60
 cccgggaagt caaggctgat ggatacgtgg acaacctcgc agaggccgng gacctgctgc 120
 tgcagcacgc ggacaagtga cgggccttct gggagggccc cgcctcctgc caccctgccc 180
 cgtgccccaa ccaccaggg tgctgccctc ggcccctgga taagaaggga gaagggggga 240
 gccaggctgg tttgggcccc cgggccaccc a 271

<210> 585
 <211> 461
 <212> DNA
 <213> Bovine

<400> 585
 ctgcgggcgg caagatggcc gtgcaaattt caaaaagag gaagtttgtc gctgatggac 60
 atcttcaaag ctggaactgt aacgagtttc tactcggga gctggctgaa gatgggtact 120
 ctggagttga ggtccgagtt acaccaacca ggacagaaat cattatcttg gccaccagga 180
 cacagaaagg acttggggag aagggccggg ggatcccggg attgactgct gtggttcaaa 240
 gagatttgcc tcccctgaag cagggtagag ctttatgccg aaaaggaagc ccagaggcc 300
 tggggccctt ggccagccgg gttccgcgtt ccaactccag gggcccgcgg gcggggccccg 360
 cttggggccg gggcctaggg gaggggcca gcgaggcg ggggcggaaa accgggcaag 420
 gccaaaccga atggggggcc cgaaccccg ggccccgtac c 461

<210> 586
 <211> 467
 <212> DNA
 <213> Bovine

<400> 586
 gttgagagga gcgtggcctt ctctctccc gccatggcgt gtgctcgtcc actgatatca 60
 gtgtactccg aaagggggag tcctctggca aaaatgtcac tttgctgct gtgttcaagg 120
 ctcccattcg acccgatatt gttaactttg ttcacaccaa cttgcgcaaa aacaacagac 180

agcccctagc tgtcagtga taagcaggcc atcaaaccag tgctgagtct tgggggaccg 240
gcgagctgtg gctcgattcc cagggttcgg ggggggggga ccaccgtccc gcccgggggc 300
tttggaaca gggggggggg ccgatgttg gccactaac ctgcgcggtg ccccgaaagg 360
aaaccaccaa accaaccctt ccgcttctg ctgcccaccc tcccccccg caggcaaagg 420
aaagaaaaag aaaacccgac cccttggggg gggaaaagga ggcccc 467

<210> 587
<211> 402
<212> DNA
<213> Bovine

<400> 587
gtcaaattgt gtcctccatc actgtttccc tgaggtttga tggtgccctg aatgtggatc 60
tgacagagtt ccagaccaac ctggtgccct atccccgcat ccacttcctt ctggccacat 120
acgcccctgt catctctgct gagaaagcct accatgaaca gctttctgta gcagagatca 180
ccaatgcttg ctttgagcca gcccaaccaga tggggaaatg tgaccctcgc catgggaaat 240
acatggcctg ctgcctgttg gaccggggga tggggttccc aaagatggca atgctgcat 300
tgccaccatc aagaccaccc accatccaat ttggggaccg ggcccacggc ttaaggttg 360
attactccac ctcccctggg accgggggga acggcaagga ca 402

<210> 588
<211> 265
<212> DNA
<213> Bovine

<400> 588
agtggcgagg tgcgtccttg tgtgcctggc ctcttgctgg tcttgcttc acggggtgtg 60
tcgccagtag accgcgggaa caaggctcgg tcccgctagc caccgccgcc tactcttggt 120
ctttacagat caccggcctg gacttccgtg ggtgcgcaga ggctgcatg tcaccggggt 180
taggatcacc cctcaccagc cgcctcgcga tgagcctgga gaaggggggg tgctgacgt 240
gaccagaggc gcgaaagata aagag 265

<210> 589
<211> 528
<212> DNA
<213> Bovine

<400> 589
tgttctctca tccgggtgtg tgtcggggct gcttctagtt tcgttggttg catcccgct 60

cggtttcgtg ctactgatga gggcgtgtga cgccacctgt gtcatccact ggcgtcgtgt 120
 tgggtccctt tgtgccctac ttgttttctc tgcccggact ggggtggcggg tccccctggg 180
 tggcctggaa tacgtgcttt ttcttttttg ggtttgcact ctcggtctta acacgctttg 240
 caactatttc tcttctcatt cctatagtcc ttcactcatg gcttggtttc ttttgcgatg 300
 tccaacagcc aaccccgccc ccacgtcccc ctccactctc cctccttcca cacataatat 360
 aataaacatt gtaactacaa attgtaagtg aaagtctcac tgttctatta atgttgcggtg 420
 cttttctcta accctcttat ccttgcttgt ctcatTTTgg cttctcttta ttcttctca 480
 atcaattcac ataaatatct tatttatgtt gtttgttctc ttgcgttc 528

<210> 590
 <211> 423
 <212> DNA
 <213> Bovine

<400> 590
 gctctgagtg gtttctgtt gccagggctc taagaccctt cacattcctg cagacctcca 60
 aactgcccg ggttgccctg ctgcctgcct gcctgccact gagggttccc agcaccatga 120
 gggcctggat cttctttctc ctttgccctg ccgggagggc cttggcagcc cctcaacagg 180
 aagccttgcc tgatgagaca gaaagggagg aagaaaccgg gggcgagggg gccggggacc 240
 cgggggagcc caccctgccc gggggaagta gggaaatcgg ggggtggggc cgggaaaccg 300
 ggaggagggg ggggccggac ccccgccaac cacaagcaa acgggagggg gggaaggag 360
 aaacaaacc ctggggggcc cgccccccc tgctgcccc tggggagtgg aaggggcaca 420
 caa 423

<210> 591
 <211> 456
 <212> DNA
 <213> Bovine

<400> 591
 gggcacgagg ccagcagg ccctagcctt gccctgccgt cctcccatca ctctagccca 60
 cctgtatcaa gggccgggga ggggccgccc ctgctgccca cccagcatg aggttctgag 120
 ccacaccctc ccacagaca gccgctccga ccgctggtcc cagatgccag caagcagggg 180
 gtgaaggagg acacagagga cgggcggccg agggccggga cagcccagcc ccggtccttt 240
 cgcatecctg ccacctcaa agcaccggg ttatgcaaga cccggatgag aggcaccgag 300
 aaacagccc gggcccagga cgaagcccca cccaaccca acaaaccaga acccgggctg 360

gggaaaaatg aattggaaag ggggaaacac aagaaggggg ggggcccccc agggcccggc 420
ctcccccggc cggggggggcc gggacccatg gccctt 456

<210> 592
<211> 602
<212> DNA
<213> Bovine

<400> 592
cgcttgccagg gcaggcagcg ggagcgcacg ggaatgtttg tgccctgccgt tggctgcgtt 60
accttcaggg cggccggggc cgagaaccct ggacccatgg gaaaccctca caggcttccg 120
ttggggcccc ttttgcagct tggcgctttt ttggccccta acgcttttca aacgggaggg 180
ttacggttat tgggcaaatt tgggttggga gaaagatttt ttttaatttg gttgcctttc 240
tgaacaactt tgaataaagt ggaagggggg ttctcaaaat tcaaaccacg ggaacaaggc 300
ccccaaaatg tttccaaaat ttaaacaacc aaaaacaatg gatttgggtg gtaggggggt 360
ttttatgggg gaatttggct ttccccttgc caaaaattt tttgaaagca agaactaaaa 420
aagtgccag ctttccaca cataagggcc tgacccccgg gggcatttgg tgggttgttt 480
gccccaatc ctggcctcct ggccttttcc tttttttgt tccaatattt gggggggttt 540
gggataagga ggggccggtt tcccgtttgc cccgtgggcc cccccaaaaa atttagactt 600
tt 602

<210> 593
<211> 37
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(37)
<223> n is a, c, g, or t

<400> 593
gtctgaatag ggatccccgg ctgctttttt ngtttga 37

<210> 594
<211> 168
<212> DNA
<213> Bovine

<400> 594
ctttttcggc tggagcgggg cccgtgcggg atcgtggtgc ttgggggtga ggggcgagag 60

ggtgcggggg tgggtcggcg gattggctgg gagggaggat gcccgcgaa cggtggccgc 120
 ttgcgggggc ccattttatg tggtaagggg ggtagaaagg gatgggcg 168

<210> 595
 <211> 306
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(306)
 <223> n is a, c, g, or t

<400> 595
 ccaaaatcta cagccgctca ctgttacctg tcctgcgttc aggacgtgtt aaggccgttg 60
 cacatattac tgggtggagga ttactggaaa acatccccag agtcctccct cagaaattgg 120
 ggggtgaattt agatgccag acctggaggg tccccaggat cttctcatgg ttacagcagg 180
 aaggccacct ctctgaagag gagatggcca gaacatttaa ctgtgggatt ggggctgccc 240
 tcgggggtatc agaggaccgc gngaagcaga ctctgcggat attgagcagc accagaagaa 300
 gccgcg 306

<210> 596
 <211> 270
 <212> DNA
 <213> Bovine

<400> 596
 gcacgaggca cgtgtgattg tgtctccaca catccgtgca tgttccctgc cttcccctcc 60
 gctccctgcc cgctgccct ctggccctta ccatggggcg gccctgcag tgtggtctgt 120
 tgcccaggag gcgagcgag ggactgagct agaggataca ggagcctggg ctcccaaat 180
 gccaaaaact cacacatatt ctgctgaag ggccgtagcc tgcctacca ccatttcaca 240
 ccctcacctg ggacctgggc tctttttttt 270

<210> 597
<211> 508
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(508)
<223> n is a, c, g, or t

<400> 597
tgttagctta aaagatggcg ggttccgctg ttgcccgggc agctggcgcc gggagcgagt 60
gctgctacgc acccgccgct cgccggccct gctgagtcgg ctgactgggg ggcaccgcca 120
cctacgcca ggctctccac agcgagccag agacgcaagt cagccagctg gacaacgggc 180
tgcgagtggc ctcgagcag tcttcccagc ctacctgcac ggtgggggta tggattgatg 240
ctggcagccg ntacgagagt gagaagaaca agggggctgc tactttggga gcatctgctt 300
tcaaggaaca aacatcgctt ggcattgctt gagaggaggt gagagcatgg ggccatctat 360
gcctacacac cggagccacg cttataataa gagtatcaag actgcaaagt gagagtctgc 420
cgcactgcag atcanctcag actccaatga gagagcggag gatctgagag tgagaatacc 480
atctgcgacg tcttatactg ttgccgct 508

<210> 598
<211> 290
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(290)
<223> n is a, c, g, or t

<400> 598
ttgttccaag attatttcag agcaaactctg aaggaggacc actgacaagc caaaaatatt 60
taatatacct gatgaaatgg ccaatcaata tatggagagg gccatcaatg taacctccct 120
caaaattaaa ccacgttagc tatcacctac acattagcta tcacctatgt cacactgtac 180
ttaagcttac tcccaagtgg aagctatctt tatatttttag antcagtcgc tcagtcattg 240
gtgactctgc gaccccgagg ctgcagnact acaggctttc ctgtccatca 290

<210> 599
<211> 296
<212> DNA
<213> Bovine

<400> 599
ggttttttca ccacatcaat ggggtaacgg tttttccag ccacacgctg catgacaggc 60
cacgggcat ttttcagttg ctgaataaac gcgcccggaa tacgacggct acccaccaca 120
agcacgctgc cgccaccttt cagggatgaa cgctgccct ttttacgacg cctgcggcgc 180
gaaaggacaa cccgcgcatt acccagcttg attacgggca aatccccccg gttaactttg 240
attctggcct gcggattttt gaccgtgggc cttttcagcc tggccctttc tttacc 296

<210> 600
<211> 48
<212> DNA
<213> Bovine

<400> 600
aagcaacggc acggccaagg gcatcagctg ccacttctgg ggacgtgg 48

<210> 601
<211> 176
<212> DNA
<213> Bovine

<400> 601
tggcacgagg cagaggctcc aggaggccct gcagggtggag gtgaaagctg ggaggacgag 60
gaggccgtgc gcctcgccca gaccagactg gtagaggagg aggaggagaa gctgaagcag 120
ctgttcgagc tgaaggaagg aacagagagg cgcttacatc gaaacgggca caggca 176

<210> 602
<211> 517
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(517)
<223> n is a, c, g, or t

<400> 602
gcacgaggca caaaatagcc cttctcccta tggagaacca agcagtttcc ataacagagc 60
cactttgctg gatgtattct cgaaggactc aagcaagcgt acactaagac tttaaactat 120
gctaagttga ctgacatata acaggagag aaggaaactc ctgataaacc tctagtatag 180
actacgggag gctctctgca agtttactga cattgattct aaaagggcag acagagaaat 240

tttotttaaaa gatagatttc tcaactcagac agctccaaat atctgccata agatacaaaa 300
 caggcattgg accaatcaga ctttagaaaa ctgtgcagct ggtcagtggg gtatatgtga 360
 gagatatgag agaaaataga ngcataaaga accagcaaga ctgagcccac tggcttagat 420
 tgcttgaaca actggaaaag ccaggnaacg gngaaaggat gagctgtttt gggaagagga 480
 tgtagtggag cttagctcta ctaccgccc tgtagct 517

<210> 603
 <211> 264
 <212> DNA
 <213> Bovine

<400> 603
 tatttggcac gagggtcctt cattcctact actcctcgca ttctctatat ttgaaggtgg 60
 gggagggaca aggtggaccg cggtcctctc ctttgcaagg gaaactaagc catgccgggg 120
 gcttgagtag atctatccat ttctcttttt cactttgtag gagttttgtc aatttttgga 180
 gccatcaact tcatttcaac aattatcaac ataaagcccg ccgccatggg acaacaccca 240
 accccctggt cggtgatccg cgtg 264

<210> 604
 <211> 522
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(522)
 <223> n is a, c, g, or t

<400> 604
 gcacgaggct ccctcattcc tactactcct cgcacacctt atagttgaag ctggggacag 60
 gaacaggctg aaccgcgttc cctcccttag caggcaacct agcccatgca ggagcttcag 120
 tagatctaac cattttctct ttacacttag caggagtttc ctcaattnta ggagccatca 180
 acttcattac aacaattatc aacataaagc cccccgcaat gtcacactac caaacccctc 240
 tgttcgtatg attccgtcat aattaccngc cgcactacta ctactctcgc tccctgtntt 300
 agcagccggc gtcacaatgc tattacagac cggaacccta atacaccttc tcgaccggca 360
 gaggnagaga cctttttatt taacactatc tgtttcttgg caccgcagtc ttattttatc 420
 tactgngtgg gataatttct tngtgaccac tatagaaaaa agaacatcga ttatgggatg 480
 tgggcttatg taatcgtttc tagtttggtg accaccttta ta 522

<210> 605
 <211> 268
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(268)
 <223> n is a, c, g, or t

<400> 605
 caaaatcgag aataatgagg gagttcggag gtttgacgag atcctggaag ccagtgatgg 60
 gatcatggtg gggtcgtggt ggatctgggc attgagatac cctgcagaga aggtcttcct 120
 tgccccagag atgatgattg gtcgngcaa ccgagctggg aagcccgtca tctgtgccac 180
 acaaatgctg gagagatgat caagaagcct cgccctaccc ggcgaggga gnngacgggc 240
 catgccggct tgatggaccg actgctca 268

<210> 606
 <211> 533
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(533)
 <223> n is a, c, g, or t

<400> 606
 cgagtgggag cccagggcc gcggtctgga agcggaactt gtcggattgt tttaagaaaa 60
 tggcagacaa gcccgacttg gggngaaatc aacagcttcg ataaggcca agctgaagaa 120
 gactgagacg caagagaaga acaccctgcc gaccaaagag accattgagc aggagaagca 180
 agcaaatga gatttccgc gaacctggg attctccacc gcatcatctt ggagacccta 240
 gccnggtgt ggaggagag ccacctgcan gatgtacacg agcgacagct ggactgtgaa 300
 cccggcnct cgtgccggcg caccggccgc gggggttgat gggaccttcc atcggactgc 360
 caattttccg gttggctgga tattataaat atttgttgat aataaaataa cacaccggg 420
 aaaaaaaaaa aaaaaatggg ggggccggcc cattcgcctt tgggggtttt catcactggc 480
 ggtttcacgg gatgggaacc ccggtccact tatgcttccc ctccctttcc ctt 533

<210> 607
 <211> 15
 <212> DNA
 <213> Bovine

<400> 607
 tttttttttg tacgc

15

<210> 608
 <211> 302
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(302)
 <223> n is a, c, g, or t

<400> 608
 tgttttttct tccttgtgca gagatgctat caccacaca tctccccacc ctgccacatg 60
 cagcctggaa ttctcctatg gttttccagt gggctctgtag tctgccagag gaggaggggg 120
 tggcctcaga cagaagccat gaagaagatc cccacacaaa gactttaaga tccacaacgc 180
 ttacttgttt tcatttattt tgatagagcc atacaaatca ntattccaaa ggatggggaa 240
 cagcgcagct aagcagactt tatttcccag cctatcatat gctcgttgnt tctgccttag 300
 ta 302

<210> 609
 <211> 555
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(555)
 <223> n is a, c, g, or t

<400> 609
 cgagaacctg caggacttag tggggaagcc ggtgttcaca gtggagcgca tgtatgacgt 60
 gacgccgcct ggcgtggtca tggggctggc ctggacggag catgggaaga ctccacgctg 120
 tttgttgaga cgtccctgag acggccgagg gacagagaca gngacaaggg ggacaaggat 180
 gggagcctgg aggggaccgg ccagctgggg gagggatgaa agagagcgcc gcatatccta 240
 cacttcccca ggccctcctg atgcagcacg actccgcaa cagttcctgt tgaactcccc 300
 atccactgca cgtgctgaag ggccacccca agacgcccga gggccgctga catctctcng 360
 ncctctctct gctttgacgg caggcngaga aactgctgac gcgaggctct ccagcaaagt 420

gctgtggcgg ttagagagac accgccaacg gcgggaccgc tccctcacta gacagagatc 480
 tttaactgttc tttcccagcc ctggggctgg ggctcccga ttttcttctc tcgggagggc 540
 gggccggggg gggcg 555

<210> 610
 <211> 538
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(538)
 <223> n is a, c, g, or t

<400> 610
 acgggggcgg cgtctaacta gnggtcccc gggtgcagg tattcggcac gaggtgtgac 60
 tggactgcat ttccatggaa ggggtgcatag tctgtctttt ttgtctggat tccctcatca 120
 agctggtcag agtcacgaac gtcgcctgt gtgggtgtgg gccggaccct gtccttcccg 180
 tcaactgtgtg cctgtccccg cccactgccc caggctcctgg agcttcttag aagtctgaat 240
 gcctggnggc agagccttcc gctgtcttct tcaagatcat ccgcgngtcc tcacctttgt 300
 ttttttttgt caatgttcaa atcatacatc ttttctccc gagtgtgtgt gtggtatttt 360
 atgcnttggt tatgttagat attacatatg ggaagaatga ctcttgcata tggaagtaaa 420
 gacataataa aaaatatacc tggcaatttg tgctactaca acaaaggctg tcgctatttt 480
 atgttattta aaaaaaaca tatcagcatt cacaaaatct tatattaaaa taaaaact 538

<210> 611
 <211> 104
 <212> DNA
 <213> Bovine

<400> 611
 tggtttttat tgtaaacaat gcattcatcg acctccagc cccatcaaac atttcataat 60
 gatgaaattt cggttccctc ctgggaatct gcctaactct acaa 104

<210> 612
 <211> 579
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(579)
 <223> n is a, c, g, or t

<400> 612
 gtacgaggct aggccgtgca gctgctgcc cgcgcgtctg tctgcctgcc ctcccgtcgg 60
 tccacccgca gcatgagcgg cctgcgcgtc tacagcacgt gggtcaccgg ctcccgcgaa 120
 atcaagtacc agcagagtga ggtgaccgc atcctggatg ggaagcgcac ccagtaccag 180
 ctagtggaca tctcccaaga caacgccctg cgggacgaga tgcgagcctt ggccggggcac 240
 cccaaggcca cccaccccca gattgtcaac ggagagcagt attgtgggga ctatgagctc 300
 ttctgtgagg ctggggacat acacactgan gagntcctga tactgcctga gcagccagac 360
 cctgactcgt catacattcc ctcccacat caccgcgtg aggaacctga ccaactcctgt 420
 tttctactga cggggcttcc ctaccagac cctctctcct acttagccct ctttcatcac 480
 acacatctca ccacgctaaa tgattagaca gcaaggtgtg ctagtggcct ggtggcctct 540
 gctgtgtggc ctgtgtcata cagtttcaag cgcacgcg 579

<210> 613
 <211> 510
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(510)
 <223> n is a, c, g, or t

<400> 613
 gcacgaggcc ctttcaaggc cagagtcaca ggtgacggcc tcgtcagcaa ccacagcctc 60
 catgagacat catctgtgtt tgtggactcc ctgaccaaga ctgccaccat cccccagcac 120
 agtgccccag gcccggtcc cactgatgcc agcaaggggc tggccaaagg cgtggggctg 180
 agcaaggcct acatggacca gaagagcagc ttcacggtgg actgcagcaa agcaggcaac 240
 aacatgctgc tgtggggcgt gcatgggccc ccgacgcctt gtgagagatc actgggaaca 300
 cgtggcagca gctctcagag tgccactgc tcaggacagg ggganaccgc tgtggncagg 360
 gggggacagc catccgggca gcctcgagcc tgggcctggt gtggcgctcc atcacactcc 420

agacagaggc cctcgctgcc ctgcaccaca cacgcccacc cgcagcctgc acctcctacc 480
 tgccctctggt ggtactgctc anggcaagag 510

<210> 614
 <211> 575
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(575)
 <223> n is a, c, g, or t

<400> 614
 gcacgaggac ctcttctgcc ccccgctccc tgtgccacc acctgctgtc ctggtgcagc 60
 atgtgttact tctggctccc atgccctaga tctgctggtg gtaaccttgg aagagctggc 120
 caggcctgga ggtttctctc tccatttgta gtgttccaga gtgccatgat tgccacgccc 180
 caccagagct ccacttgtca tgctcgcggc ccatccacac acctttcttg cctcttgctt 240
 cctgcagggg ggggggggat gggagtgaga cagcccggcc cctcttcccc tctcctccca 300
 ctgagcacca gctgctgctg ccagngaagc tcatgaccgg ggcggnacgc ttccctccac 360
 tgacgaatca ttatcttaac taataaatca ctattaaaga ccaactaact aatgatgaag 420
 atggcgaaca tttaactcgt tttaggtttt gtttctagt cctgtgtttt ttacctggtt 480
 atatatttta taatttactg tgatgacaag aatgctgttc ttgagacatt ttgatttggt 540
 attngttttc tttctttccc tacatctacc atatc 575

<210> 615
 <211> 485
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(485)
 <223> n is a, c, g, or t

<400> 615
 gcacgaggca gcgggcgagc tgggaccgc gtggcatcct gcctccctgc ccgcgaagtg 60
 acagtttaca aaattatttt ctgcaaaaaa gaaaaaaaag ttacgctaaa aaaaaagcc 120
 aaaaataccc acaaaaccac atattctatt atacaaaaag tattcttttc tccaccgctt 180
 taaaaggaaa agaggaagaa ttaccctttt gcaccgcaat gttttgtttt gctgggacat 240
 aagcaaacac cccagccaat gttatatcca tccttttttt cgtttttttt tttcctttct 300

ttctgccct ctgctgtntc cattcccat ctctggccc cttgtggga gtgggaggtg	360
gggcggggaa atctgcaaa gccatgtgct gtgtgtgctg cccctgtcct gaaatttttg	420
tttaaaaatt ttgattgttg tttttagaaa aaaaaaaaaa aaccgatga agaaagaccc	480
tgacg	485

<210> 616
 <211> 95
 <212> DNA
 <213> Bovine

<400> 616	
gcacgagggg ttgggagaga gccagctatt ctgggggggaa aattttgagg gaaaacaact	60
attaaatggg gtggatttag tttttttgt cccta	95

<210> 617
 <211> 634
 <212> DNA
 <213> Bovine

<400> 617	
cggggggggc ttaaatatgg tcccggctgc agaaaatgaa gctgaacaaa atcttcattg	60
cggaggtact tgcctcatcc gagcgagccc gccgacatgc tgagcaagag agagacgagc	120
tggcggacga gattgccaat agcgccctcc gcaagtctgc acttccgat gagaagcggc	180
ggcctggagg gctcgatcgc acagctagag gaggaggtgg gaggggagca gagcaacatg	240
gagctgctca atgaccgctt ccgcaagacc aactgcaag gggacacgct tgacactgag	300
ctgcgggcca gcgcagcgt gcccacaga gcgtaatgcg cgcagcagct ggaggggaga	360
acaaaagttg aagccagctg aggagcggga gggcggcagt ccagttatgg cacctctttg	420
tttgaagcag atgggggtgga gggagtgtgc aggagcagga agaccggcca taatatcggg	480
tacggagagt gtagatTTTT gcgtgagtga agcgctgcgt catttagaaa gggagcatgc	540
agtgaagtta ggggggtggga ggggagagtc agccgctttg ccaccggga cgtggctggc	600
ccgggcgcg ggcgggaag gggggggcgt gtct	634

<210> 618
 <211> 368
 <212> DNA
 <213> Bovine

<400> 618	
cgggggctta atatgtcccg ctagaatgac agtcctgtga tgataggtgt tgtttatgtc	60

cggacttgtc tgtgctgatg ttttttattt gatcggcagg acagaggatt ttggggtagt 120
 tcaagaaaac aaaaagaaa gaggaagaaa agtgagctca acgagcccgc gtccttttaa 180
 gaaacatggt tgcctgacag ctggcctgcc acgcaacaga ttcgctttca taagattgca 240
 acaacaaagt ttatgtacat taaataaata aaaaatgaaa aaacaacaaa atttgagttg 300
 tgtataataa aaggagagaa aaataatggt gtttagtaat tttgttggtt tgtttttttt 360
 ttataatt 368

<210> 619
 <211> 179
 <212> DNA
 <213> Bovine

<400> 619
 gcacgaggct cccccggcg ccgctctggc cgcactgcgc tcgccctgag ctccggtctc 60
 ctgctaagcc agcgccgctg tcgcctccct ccagtcgcca tcatgatcat ctaccgggac 120
 cctcattagc catgacgaga tgttctccga catctacaag atccgggagg gggcggacg 179

<210> 620
 <211> 548
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(548)
 <223> n is a, c, g, or t

<400> 620
 gcacgaggcc cccctcccc cgagcgccgc tctggccgca ctgcgctcgc cctgagctcc 60
 gggctcctgc taagccagcg ccgctgtcgc ctccctccag tcgccatcat gatcatctac 120
 cgggacctca ttagccatga cgagatgttc tccgacatct acaagatccg ggaggtcgcg 180
 gacgggctgt gtctgggggg ggaggggaag atggncagta ggacagaggg taacatcgat 240
 gactcgctca ttggtgggaa atgcctcgcg ctgaggcccc gaggcgaagg taccgaagca 300
 cagtatcact ggtgtcgata tgtcatgatc atcactgcag gtaacagctc acatagaagc 360
 tacagaatac atcaagatac atgagtatca tggaactgag aacaaacaaa gataaatctt 420
 tgaaggctga gacaatagcc atctgtattc aaacttattt tttggaacat gatcaatgct 480
 ggtgttcggc tcggagtgga ccttttattt ttagtgtaa tagnaagtaa gatggttctg 540
 tataactgt 548

<210> 621
 <211> 208
 <212> DNA
 <213> Bovine

<400> 621
 cgggggggcg ttagactagg gtccccggct gaggaattgg cacgagcccc ctcccccta 60
 ggcccgacac cccgtctctg gtacaagcag accaagaggc tcaagccatg gcagacaaaa 120
 gccgggggaa gagatgcaag cacagaaggc ctcccgggta aagatgtgac tgggtgggctc 180
 ctttctgct atactgggga gggagcaa 208

<210> 622
 <211> 454
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(454)
 <223> n is a, c, g, or t

<400> 622
 cgggggggcg ttagactgtg gtccccggct gagtataact ttttttttct ttctttgtga 60
 acagctcatg ttaatagaga gatggagccc aagaacagac agctcggttt cgaaatacaa 120
 gtttaggaaa atcttatctc agtcatgcat aaatatgcag ggatatggca gaagacacca 180
 gagcagatgc agagagccat tttgtggatg gattggatta ttaataaca ttaccttact 240
 ggggagggag gattggaaaa aaaaatgcct ttgtgacagc ttcttatctt tttattgttg 300
 tttcttcttg tggctttgta tgagtgtgaa tcattccttc ttgttatgnt nattngtagt 360
 tncagtgaat gtgatacttt ttatgatttt ttcaagtttg aaactttatc agtctgtgta 420
 tagacatacg tttnccttaa aattatgcgt gtaa 454

<210> 623
 <211> 485
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(485)
 <223> n is a, c, g, or t

<400> 623
 gcacgaggcc gatctctgcg aagagctgga accccgggac cttggcgaag tccaaaataa 60
 agagtgtcga gacgcctggt gtgtgttggt gttgttgtgn gcgtgcacgc ctgtgtgggt 120

gtggggtgtg tgtatgtgtg gtgtgtgtgt gtgtctcttt gtgtggtgta tgtctgtgtg 180
tatgtggctg ggtgtgtctg tgagacttgc ccgcgcggtc ttngngccccg cgcttccccg 240
ggcgcaggtg cattgcagac ggcactgggg tccgccgagg ggagcctggt gctgattttg 300
gtcctccttc accgcccgcc agccctggga gagcctttgt tcagctgatg tgagggctcc 360
tgttctagtc atgcctgtct ggacaacgat caagtccgag cacgcgggga ggccctaaac 420
ccactgacct caaccaaaaa ggaggcggac aacaaatctc ccacctgggt gtgggggttg 480
gaagg 485

<210> 624
<211> 572
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(572)
<223> n is a, c, g, or t

<400> 624
cggcgtctat aatagnggtc ccccgggctg caggcgggtg cacgggtggc gagcgcagac 60
gggagaggct gccagacgag caccatggct ccctgccgcg ttcgcccgct gctgtgggtc 120
ctcgtgctgg ggcttgggct ggcgctgctg cgcgccgcgg gcggggaggg agtgccaggc 180
accacccct gctctcgcg gacctcctgg agcgcggacc taaacaagt catggactgt 240
gcctcgggcc gggcgagacc gcacaaggac ttttgccctg gctgcaactgc gcgccctcca 300
gccccctct tgttgggttg ggcattctgg gggggccctg ggctggccct gggctggggt 360
ggtttttgggt gctgggctgg gagggggcgc agaaaagaat ttacacccc atcggggacg 420
ggggggagtg gctggggggc ctgtcaggcg gggcgccccg ccggagaggt gggccgtctt 480
tttttttttt tttgtgctcc aactccaacc aacaagcagc tgtctacaca ggggggagat 540
gggaaggata ttttttagtt gtccatttca ag 572

<210> 625
<211> 698
<212> DNA
<213> Bovine

<400> 625
cggcgtctat attatctgtg cctcggcctg tttgctgctc tctaacatcc atacttgtac 60
tgtactttca cctgtggacc ctctccacat cagactttta ctgtccctta tggttgata 120

cattocaaac ctattccagt tggtoccaag tgtccatccc ttataactct gcccttgcta 180
tttaacctcc aactaagggtg gtctagattt ccctgatggc tcagctgtga aagaatccat 240
tttcagcgca caggaaacca gagacgcagg ttcaatccgt gggtcgggat gatcccctag 300
agaaggaaat tgtctccac tccagttttc ttgcctgaaa aatccctgga cagaggaacc 360
tggctgcttc agcgagagg gttgcacaga ctacaccga ctgaccacct accacattgc 420
tatgtgcttt cttttttatc ttctcatgct attgccaacc tgaatgcgac ctaacagacc 480
tgaagaggaa taagagaaat cttctgacga aagcattaaa aagcagaaaag ccttaaatacg 540
aatatcttga aagactcata cattagaaat tgctatgttc ttaaactcaa cttttctctt 600
ttacctcaac ctaaagaacc gtccgttcct gtttagggga aataaaaatc acactgccac 660
ctaaccaagg aacataaaca tttacttcct cctcctct 698

<210> 626
<211> 510
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(510)
<223> n is a, c, g, or t

<400> 626
ctgcagtcta acatccagcc ttgtcctgta ctttcacctc tcaccctccc acagcagctt 60
cactgccctt atgggtgtaac atccaaccat tccagnngtc caagagccac cctacaactc 120
tcccttgcta tttaacctcc aactaaggag gtctagattt ccctgatggc tcaactgtga 180
aagaatccat atacagngca gaggagacaa gagacgcagg gtcaatccgc gggtcgggaa 240
gatcccctag agaggaaatg gtaaccact ccagtattct tgcctgtaaa atacatggac 300
agaggagcct gcgagctcag tgcagagggt tgcaaagact ctacacgact gagcactanc 360
acatgctttg ttgctttttt ttttttatct tagttattga caacatgatg gacctacagt 420
acatgagatg gatacaagga atatttgctg gagcaataag aagtagaagg attgattgaa 480
tatttttaat gactatacat tataaatttc 510

<210> 627
 <211> 548
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(548)
 <223> n is a, c, g, or t

<400> 627
 tcttgttgaa atgaaatacc acaacaaaaa gcaaggaaca atgagcaaga gaaaggagag 60
 cttttaaaaa attaactgga ccacttttgg gggttgggga gcagaactgc ttttggtgat 120
 ctcacgtgac gtgtgaaggt aactgtgct tctttgcttc aggaaatata gggttgtctg 180
 caaggaaccc aaggtacagc caacgggagg ggggtttttt caaatcccaa actcaccgac 240
 aggcgtgaat gttccttgta gtcctctgta gactgtgtcc tggccctgtc agcccttctt 300
 cagcctgcac cctgttccag agccagttag acggagacac tgtgatggag ctctcacttc 360
 caagtgatag tattattaat ttgtgtgtgt cagactatga ctcagatgtg ggtggatttt 420
 tatttaacga taatgacatt ataaaacttt atttgtattt gtatttaata tcatttcatt 480
 tttaatcttt atttgagcac gtgttaaaat taatactttg gtttatgttc tgatttnttt 540
 ttactcta 548

<210> 628
 <211> 201
 <212> DNA
 <213> Bovine

<400> 628
 gggcacgagg taaacccaag cccttgacct cttacaggag ctttgtctgc cctcttaata 60
 acatccggcc taaccatgtg atttcacttt aactcaatga ccctgcta aattggccta 120
 acaacaaata tactaacaat ataccaatga tgacgagatg ttatccgaga aagcaccttc 180
 caagggcacc ataccagct g 201

<210> 629
 <211> 282
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(282)
 <223> n is a, c, g, or t

<400> 629
 gaggagaaac ttcacgngg tccccagntg gatttattgt tgaaggagaa ccaccaggaa 60
 agggttccca cttgctcttg gtctgctggc cacctgctct caaaaaatac taccttgcag 120
 acaagatgct acggatgagg aactgcaacg aaagatgttt tttaggtcc agatgggatg 180
 tgcgaggcac acgatcactc ctggtgttgt ggtgtgtaaa aaagatggaa agaaatataa 240
 ttaaaaaaaaa acactgctgc tttttgtttg tctgggttgg gg 282

<210> 630
 <211> 488
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(488)
 <223> n is a, c, g, or t

<400> 630
 tgggacgagg gtcaatccta gacattataa tgcattggtat ggtttaggaa tgatttatta 60
 caagcaagaa aaattcagcc ttgcagaaat gcatttccag aaagcacttg acatcaaccc 120
 tcaaagttca gttttgcttt gccacattgg ggtagtccag catgcactga aaaaatctga 180
 gaaggctttg gataccctaa acaaagccat tgttattgat cctaagaacc ttctatgcaa 240
 atttcacaga gcctcagttt tatttggaat tgaaaaatat agtctgcttt acagaacttn 300
 gagaatgatc acatngttcc caangatccc tcgttactct taatagaagg ttaaagagtt 360
 agtcaacgca ctgcctgtg atntcttttg gttgggtaaa tcctaagacc aataccaata 420
 aaagcaatgt aacctacttc aagagagagc ataccagag aaaatatgga caagatccag 480
 agagagag 488

<210> 631
 <211> 244
 <212> DNA
 <213> Bovine

<400> 631
 tccatacggc gttgtcttga attcccgctg taacttaaag ggaagctttc acaatgtccg 60
 ggagcccttg atgtcctgca aatgaaggag gaggatgtcc tcaaattcct tgcagcagga 120
 acccacttag ggggcaccaa ccttgacttc caaatggaac aatacatcta caaaaggaaa 180
 agtgatggca tctacatcat aaatctgaag aggacggggg agaagcttct gttgggcgct 240
 cggc 244

<210> 632
 <211> 567
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(567)
 <223> n is a, c, g, or t

<400> 632
 tgctggtgct gttggcccaa gaggtcccag tggcccacaa ggtattcgag gtgacaaggg 60
 agagcctggt gataagggtc ccagaggtct tcttggtta aaggacaca atgggttgca 120
 agggctcccg ggtcttgctg ggcatcatgg ggatcaaggg gctcccgggg ctgggggtcc 180
 cgctgggccc aggggccctg ctggtccttc tggcccagc tgcaaagacg ggcgcatttg 240
 acagactggn gcacgtggac ctgctggcat ttcgtggctt caaggtagcc aagggtctgc 300
 tggccctcct ggccccctgg cccttctgac ctctggcca aggggggggg ttcgatttgg 360
 gtttgtgtga cttttcaggc tgcccaccct cctactactc tctcnacca gatttgaant 420
 gtgcacttgt atcttcacaa caattgaaac tttttttcaa agctttagaa aaccctcgc 480
 atcccgactt gaccaccccc caagggactg ttttattggt gactatccaa gtgtcttgtt 540
 gtttaagttt tttttttttt gcgaact 567

<210> 633
<211> 500
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(500)
<223> n is a, c, g, or t

<400> 633
cggacattca gacagaacgt gcgtacccaa agcaaccgac catctttcaa aataaaaaga 60
gggtcctgct tggagaaact ggcaaagaaa gctccctgat actacagaac ttggtctggg 120
cttcaagact ccaaaggagg ccatcgaggg cacctacatt gacaagaaat gcccttttac 180
gggtaatgtc tccattcggg gcggatcctg tctggcgtgg tgacccaaat gaagatgcag 240
aggaccatcg tcatccgccc agactacctt cactacatcg aaagtacaac cgctttgaga 300
agcgcanaga actnccgcgt gcacctttct cctgcttagg gacgccagat cgcgacatgt 360
cacgtgggcg agtgccggccc tggcagactg gcgctcatgt ctcaggtcac cagctccgca 420
caagagcatt cgaagttgaa tggccttgct gtcccaacac atagtattnc attcaaaaaa 480
aaaaaaaaaa aaataaaaat 500

<210> 634
<211> 212
<212> DNA
<213> Bovine

<400> 634
gcacgaggcc cttcttcacc ccttgcccct cgccatcacc ccgactctca acacagcaca 60
aaccttgcaa acccaaagag aatattaata cttgaagcaa gaagggtgca tgccagtccc 120
tctcaatcat ggccagggga tgccagggtc tgcgcccttg gactcctagc cctgcccagg 180
gcaaggaggg cttttcccta gagctactgg gc 212

<210> 635
<211> 518
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(518)
<223> n is a, c, g, or t

<400> 635
gcacgaggga ctgttttcat caagaatagt ctcttgagaa aacttcaaatt ttacgctaac 60

aaaaggtaca tttgcctcag ggatgtcagt atttttttaga agctccacac atggctgtat 120
 cataaagaaa acttagttga attattttga ctgctgtttt ctgccctgta ctggagcttt 180
 agggtttgctt gttgactttt ggacaacttt ggggtgatgag gctgcagctg atttctatct 240
 tgattcatca ggtacgggag tttgagggcg cagtcatagc tctctttatt tactggccac 300
 cnagacagac naaagtcgag ccttgaggga ggcttttata gtcagaattt gcccatctca 360
 tgacctcatg ccacagtttt cgtgttcgtg ttgtatattt ttaggttccg tgggactgcc 420
 atcagtcagc cgaccgcggc agacagcact acccctcagc tctctaactc cacatcctat 480
 attctctgcg cctgtgccac ctgctgattt caatgctt 518

<210> 636
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 636
 gtttctgca cctgttctcg aacgctcagc gtggctcctc ttccgatttg gagatgcctg 60
 tctgggggag gtggcaacaa gtgcggggcg ctgtggggag gacacggtac cacggccgag 120
 gaggtgcagn gtgacggccg gagcttcac cgctgctgct tcctgtgcat ggtttgcagg 180
 aagaatttag atagtacaac agtggcaatt cacgatgaag aaatctactg caaatcctgc 240
 tacggaaaga agtacgggcc aaaagggcta cgggtacggc cagggcgag gcaccctcaa 300
 catggaccgg gcgagaggtt gggcatcaag ccgaaagtgt tcaacctcac agaccgacac 360
 aaatcaaaca ctttaatttg tcagaatttg aggtgctgga gtgtcagatg tgggttccgt 420
 tcgctncgat agactttag ctgaagcctg cacaaactgt tcgtgtgcta ggcgggaggt 480
 ctagtctaca cttgatgaga aaagtgaatt ttgtagatgt ccgagactcg ccagtttgc 540
 ttgcaggct ggcc 554

<210> 637
 <211> 212
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(212)
 <223> n is a, c, g, or t

<400> 637
 gcacgaggga aagttcagac atcaggtaag tgtgttctaa ttaaaagatc atgagttcaa 60
 atcccaagca gggtttttagc tggatttgag tcctggccat gtggggttga gtcccaaact 120
 aggttttttg ctagattcaa atactggcac atgggttcaa gtgccaatat gaggtaaatg 180
 gntttaagac catttaggtt tttgtattct tt 212

<210> 638
 <211> 538
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(538)
 <223> n is a, c, g, or t

<400> 638
 cgccggcccc agcgcgctgc caccgctgcc caccacccat caaccagcat gtcctccgct 60
 cacttcaacc gaggccccgc ctacgggctg tgggctgagg acaagaacaa gctggcccag 120
 aagtatgacc accaggggga gcaggagctc cgagagtggg tcgaggggggt gacggggcgc 180
 cgcacgga acaacttcat ggacggactt aaagacggca tgattctttg tgagttcatc 240
 aataagctcc agccaggctc cgtgaagaaa gtaaatgagt ccactcataa ctggcatcag 300
 ctgaagaaca tcgtcaactc atcatgccat caccagtcgg ggtgaagccc tacgatatct 360
 tgaggccacg acctgttcga cacaccacca acgcagtgc tcacctttgc gctgccagat 420
 gacagagaaa ggacaggnga tggggaggaa tagcggaagc gtacgtgatt gagcaagagc 480
 taaagaagcg acattngtgt cagtggaccc agtgcagcag agctgaggtg cggccgcg 538

<210> 639
 <211> 264
 <212> DNA
 <213> Bovine

<400> 639
 aacttgagta ctacacaagc tggctggata ctgggccagc atcactccca cgctcctttc 60

actgtaccaa agacagagaa atgtcagttg ggagccaggg acatgtcatg tccgcagtac 120
aacttgatct gatgtgtgtg agaggacgtt cttcattctc cacttgatac agcacctatc 180
gacaggaccc caccacttt gtttttatga ttacagtttc gagtccttgc cttcctccca 240
cccacatacc tgacttacct ccct 264

<210> 640
<211> 100
<212> DNA
<213> Bovine

<400> 640
gcacgaggcc ccgctgagag gaggcagcca gtgcgactcc caccgcccgg cgacccacct 60
tcctccaagt ccgacgggca gccgcccccg gggcgacaag 100

<210> 641
<211> 532
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(532)
<223> n is a, c, g, or t

<400> 641
gcacgaggcg agttcgacgg gaagaggttc cagaatgttg ccaaagaagg agtgaagttt 60
gatgaaagtg agaaaagtaa ggagagtcgt gaagcagttg agaaagaatt tgagcctctg 120
ctaaactgga tgaaagataa agcactcaag gacaagatcg agaaggctgn ggngtctcag 180
cgctgacag agtctccggg tgctctgccg gccagccaga cgggcccggc tggcacatgg 240
agaggatcat gaaagcccca gcataccana caggcatgga catctcatcc attattatgc 300
caccagataa aacatttgtt ttaaccacc acccactatc ataactgctt gaagagttag 360
agagagatga atactgtcag atctgtgtgt ttgttgaaca cacctcgtct gattctttgc 420
aacctaagat tgagaagata natgatctcg ctactaaca tcaactgtgca agtgagagac 480
cagagactga gacacaagca cgaagaacaa agataaagag gagacagacg ac 532

<210> 642
 <211> 546
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(546)
 <223> n is a, c, g, or t

```
<400> 642
gcacgagggc ctgcctgccc aacctggacc gcgtgggcca cccaaggag cgctgcttcg      60
ccttctgatg gacggggcct gctgcccgtt ttcactgtac cctggccaca cccaccctc      120
ctgccgctgt tcattaacac caccgcgccc acgtctccag ctgcggacgg gttcagcctg      180
gcctgcccggt gcctgggagg tcaccccgct gggctggccc ctgagggggc cctttgggag      240
caggtgtgtg gtacaggtgg gctgctgttg gccaccttta agacagattc ctgtctagga      300
ctgcgcggag atgttccttc cctctcgnc ctcacatac aactactgg tggaggctgc      360
cagcaccatg ctcccaactc ccagacatcc acacctggaa attagagaaa gtacagcaac      420
cttactacag cgcagcctca ccactgagac atgnctncnc cctgctgtta gaccgcgag      480
cttcaagtga actatgtact gaaccatagt ccatggatgg ctgtggttga gtgncnacac      540
caagcc                                           546
```

<210> 643
 <211> 215
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(215)
 <223> n is a, c, g, or t

```
<400> 643
gcacgaggat aagaccaatt ggtataaaac aagattacta ggaggaaaaa gaaaatattg      60
tggttttagaa ctggtactgg agaaggcaat ggcacccac tccagtactc ttgcctggaa      120
actcccatgg atggaggagc ctagggggct gcagnccatg ggggggtgcta agagtcagac      180
atgactgagc gacttcgctt tcacttttta ctttc                                           215
```

<210> 644
 <211> 568
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(568)
 <223> n is a, c, g, or t

```
<400> 644
gagctccagg accgacagga tgggggtcagc ctgcatcaaa gtcaccaagt acttcctctt      60
cctcttcaac ttgctcttct ttgtcctggg cgcgngatc ctgggcttgg gatgtggatc      120
ctggtcgaca agaacagttt catctccatc ttacagacct cctccacctc gttcaagggtg      180
gcggcctacg tcttcatcag acgcgggggc cctcaccatg ctcatgggct tcttgggctg      240
cctgggngcc gncaaagagg tccgtgcct gctgggatgt actttgcctt cctcctgctg      300
atcctcatcg ccagntgact gcccggtct ttttctattc aacatgggcc agctgaagca      360
ggagagggca gcatcgtgac aaactattca cactacacga cggctcgnga caattgcaga      420
gcctggatac tgcagcttag gaagtgtggg ctggtcaata ctcatgnaag aaaacgacta      480
tgatgacaca cacttctgt ctggaaaatg agagagagct ctgagccaga ggtnttgag      540
tcttgacag acaacgcaaa cccaaaag      568
```

<210> 645
 <211> 496
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(496)
 <223> n is a, c, g, or t

```
<400> 645
gcacgaggct gaggctcgct ctttgctctg gggattctgt ggcttttccc agtgctaacc      60
cactcaacaa gaaacggttt accagaccat acagaccag aagacaatga aattgtctgc      120
ttcttaaaag tgcaaatagc tgaagcaatt aacttacaag ataagaactt aatggctcag      180
cttcaggaaa caatgcgttg ngtgtgccgc ttgataacc ggacctgtag gaagctgttg      240
gogtccatcg ccgaggacta caggaagcgg gccccctaca ttgcttacct cactcgtgtg      300
cgacaggact gcagacacgc aggotacctg gaaggctctg cagaggttct gcggacaaga      360
gtggccatcc tacttaccac gctgtgtgag tgtgcttggg gaagagagag atcaggaata      420
```


ttcagattta taatacagcg tgtgtaaacc ccaagtgaga ttttgcagtc tgtcggggat 480
gccagagcat tggana 496

<210> 646
<211> 405
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(405)
<223> n is a, c, g, or t

<400> 646
gcacgaggct gtggctcgct ctttgttctg ggggttctgt ggctttccca gcgctaaccc 60
actcaacaag aaacggttta ccagaccata cagaccaga agacaatgaa attgtgtgct 120
tcttaaaagt gcaaatagct gaagcaatta acttacaaga taagaactta atggctcaac 180
ttcaggaaac aatgcgttgt gtgtgccgct ttgataaccg gacctgtggg aagctgctgg 240
cgtccatcgc cgaggactac aggaagcggg cccctactt gctttccnac tcgctgtcga 300
caagactgca gacacgcagc tcaactggtag actctgcagt ggttctgngg gacaagagtg 360
gccatcctac ttaccacgtt gtgtagttgt gctggagaag agaga 405

<210> 647
<211> 435
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(435)
<223> n is a, c, g, or t

<400> 647
cccaggccca ggcggcctgc ctatcccctc ctactcccggt cgctgcctct cccacccctg 60
tatctgcgcc cggagccagt ttgtttgtcc agcggcggcc tccgccgctc gagctgtttg 120
cggagcttag cgcgccgccg cgcagcgccg gcccaattaa gtctaattca ttattcagcg 180
ccccagtgtc cccgcgccca gcagctggcg gctccagcgt cactttgatg cccctcccag 240
ccctggcccc gccgtgagtg ctagggagca gacagagaga gctgctttcc cttctcggac 300
cgagaagaga ctgaggggggt gggatgtann gaggacaaat ctgtgactgt gggagcgacg 360
cgcagccttc gaccacccca ccacataaaa tggaactgan atcacctttt tttaaagagg 420
aacggcccc cttact 435

<210> 648
 <211> 248
 <212> DNA
 <213> Bovine

<400> 648
 gaacgagggc gggagctggg gtctctggag cgggatggca gcgggagccg gccggagttg 60
 gtccctaggc tcacagatcc cgctctctgg cctgaaacat ggcccggggg acctggccct 120
 ctaaccggc ctcgccccga cacggccgcc atgcccaaga gagggagcg actcaagttc 180
 cgggcccaag acgctgctc aggaagagtg accgtggggg attatgccaa ctcggatccg 240
 gcaggcgg 248

<210> 649
 <211> 634
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(634)
 <223> n is a, c, g, or t

<400> 649
 gaacgagggc gggagctgcg gtctctggga gcggggtggc agcggagccg gccggagttg 60
 gccctagctc acagatccgc tttggcctga aacatggccc gggacctggc cctctaacct 120
 ggccctgccc cgacacggcc gccatgccc aagagaggaa gcgactcaag ttccgggccc 180
 aagacgcctg ctcaagaaga gtgaccgtgg gggattatgc caactcgat ccggcagtcg 240
 ggagggctgg aaggggcaag aaagctggc gccaatgctg ttcataagaa gtaaaatctc 300
 tctgtggctt ggaagcctcc cagggtccgg cagtggtagc tctttctggg gctgtgagcc 360
 ctggacacat cgaagaagag ggaactgatg ccagagaaa gatacatgag agactactac 420
 aaaaaagaaa gcagagaaca agagaccgag gnacggagag agagatccag gatTTTggtt 480
 tgtgcctctt atcgactgag aattggattt tcctgattga gacgccgact gcctgccctg 540
 tgctttgaca gggacgaaca taacacgatc cttgccttgc cgcaccgaca agaaaagacg 600
 ctgctgggt cgctgccat ttggcttcgt cggt 634

<210> 650
 <211> 82
 <212> DNA
 <213> Bovine

<400> 650
 gcacgaggct tctccaagca tcaccctggg gagggttttc tagacttttt ctcatacatg 60
 gggagcagta aggtttatct at 82

<210> 651
 <211> 211
 <212> DNA
 <213> Bovine

<400> 651
 atagacctgt ggtcttacat acacgcaccc acacacacac gcatttatgt tttttttttt 60
 tatttagtgg cttgaaaaat gaagaaaata atgttttttg cttttatgtg ggaaatcatg 120
 gaataccata cgagttaagg cgttcctctt ttctctctcg ctcaccacag gggtgacacc 180
 cacgctcccc cacaccactc attgttgga t 211

<210> 652
 <211> 524
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(524)
 <223> n is a, c, g, or t

<400> 652
 gcacgagggc ccggcggagt gggggctggg ggtggccatg gatgatgata ttgctgctgct 60
 cgtggctcgac aacggctccg gcatgtgcaa ggccggcttc gcgggacgac atgctccccg 120
 ggccgtcttc ccgtccatcg nggggcgccc ccggcaccag ggcgtaatgg tgggcatggg 180
 ccagaaggac tcggacgggg ggatgaggct cagagcaaga gagcatcctg accctcagta 240
 cccattgag cacggcatcg tcaccaactg ggacgacatg agaaagatct ggcaccacac 300
 ctctacaacg gctccgtgtg ggccctgaga gcccccggc tgtgaccgag cccctgacc 360
 cccagcaacc ggagagatac caatatgtta gacctcacac cctccattac cggccttcag 420
 tggctgcctg ttgccttgcc caccacgatc ggaggatcgt gacggtagcc cacggccatt 480
 agagttaccc ttctgcacg tcttgaccgg tgcggactgc gaca 524

<210> 653
 <211> 598
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(598)
 <223> n is a, c, g, or t

<400> 653
 ggaaaaggac cgtggccctg agggccagtt tgtgatgggt tatgtggtac gactgcacaa 60
 ttttcaccag ctgtctgcac cccagccctg ttttaccttc tgccatccta acaaagatcc 120
 tatgattgac aacaatcgct actgtacctt gggggttgct gtggaggggg acacagggct 180
 ggggtgggttt gcaggctact ttgagactgt gctttatcag gacatcactc tgagtatccg 240
 gccagagact cactcttctg ggggtggtttc atggtttccc atcctcttcc ccattaagca 300
 gcgcattacg ggggaggagg ccagacctct ggtgcggtgt ggcgtagcagc actctagaag 360
 ggggggatgag gggctggacg gacgggctgc ttgcttcaca cccacagcg tctacacatn 420
 gctctacccg gcgagggcga agcgggagag cgagattggt cgagccagag ggagacactg 480
 gcttgctcgcg gccatcaaag acttagctgc ttctcctctc agagcaaggg atgggcccagc 540
 accacggaga tagccggagg gatagtgttg gttcacgctc gccagcccgg agcggatg 598

<210> 654
 <211> 309
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(309)
 <223> n is a, c, g, or t

<400> 654
 agcatgatag acaacttcac tcctttgctc cccaggggcc acccacccca ctcacaccca 60
 gcgagggact tccaccccca cgcagggggg aaccctgaca gccagggagg actcacacct 120
 cctccgtccg gctgagcccc ttgggtcctg ggagagactc ttcagctggt tcctcctcga 180
 tcctcgcccc ccgcccggng ggacggggtn gcagngaggc ggggtgtggct gaggggggct 240
 cgggctgccc ggctgagggt gggcgggggg gggttcttct ggctggagat ggggggtggt 300
 ctgttaatc 309

<210> 655
 <211> 596
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(596)
 <223> n is a, c, g, or t

<400> 655
 gcacgagggg ttaaagtaag ctctgttcct ttcaattcag tcgttcagtt gtgtccgact 60
 ctttgcgacc ccatgggact gcggcacgcc aggcttcctt gcccatcaac tcccagagct 120
 tgctcaaact catgtctgtc aagncgggtga tggactctgt tagagaattt taaatgctat 180
 ctctgtgttt aggtgaagca gtaccactct gtttttaagt gttgtgtgta gctggacact 240
 gttcagatta cttgcttcca tcttgtctct ctctcacatt tcattattga agatttatga 300
 atatacagag naaagagaat agtatcagaa ctgccatgat tcatacccaa gtcaaaaata 360
 aactacagc tagctgatta ttataatgcn tccacacctc actcactgat ttttaagtaa 420
 tctacatgta ttttttntt aatattcatg ctgcttaaaa tagaatctta ttcactaaca 480
 cgactcttag ctttaaagtc tgattctagt gtcaaattgg tttattttta ataaaaaat 540
 tttttttgct aaagaattta agttttcttc aataaaagtt gtttttttta ttcaaa 596

<210> 656
 <211> 118
 <212> DNA
 <213> Bovine

<400> 656
 tttggggagc aggccaaaac gaatgcttgg ctgcagacag ggtggccgct tgggccccct 60
 cggcgcgagc ccacgtaact ggtttgtacc gcttttgtgg ccgtgttcta cgcgcgac 118

<210> 657
 <211> 300
 <212> DNA
 <213> Bovine

<400> 657
 gcacgaggcc ggccccctgc tgctctcacc ccagtgcacc tttcccaggg gacctctccc 60
 accctcctcg aaagaaggac cgaaagaacc gaagtggggc gcggaggggc gacaggcttt 120
 ggggtactcc ggaggccccg cccagccccct ggggatgggg aaaagaagac tcgaaacaag 180
 aaaagcaaga agcggaaatt gaaaaaagca gaacgagggg ataggctccc acctcctggg 240

cctccccggg cccccccag cgatacaaac ctgaagagaa gaggaggaga aggaggggga 300

<210> 658
<211> 480
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(480)
<223> n is a, c, g, or t

<400> 658
tttttcctgg gatgtgaggc aatctgttgg caaaaattac atgtatttgt ccttcctatt 60
tgtaagatta tatttaatga tttcttttct tttatcagag actctcactg caggcagngc 120
tatttcttgt gcctaagact atttctgaaa gttgcatcac taatgatact tgccgagttg 180
aggggtgcaga aagtttctca taccatattc aagataatac caagcacatg tggccgctgg 240
agagtgaagc tgtagtacag aatgcgtaaa ttctgtcccc aggaaatctg agataagcag 300
ggctgctggg gtttttcccc tactctgagc tgtgttcttc tcttttggtg gcctatgctg 360
nataatggat gctaatagta atattttatg ctagattcag atttgtccta gtagtgtctt 420
tttctatgta gaaacttaac atggatttag ggtgtgtgtt tttttaaagg gaaggagatt 480

<210> 659
<211> 467
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(467)
<223> n is a, c, g, or t

<400> 659
caattatcaa ggagagttga aaaaagggtga taacatctat aatacgagga cgagaaagaa 60
agtgcgggtg cagcgactgg ttcgcatgca tgccgacatg atggagatgt tgaggaaggg 120
tttgctggag acatctgtgc attgtttggc attgactgtg ccagcggaga cacattcaca 180
aaciaagata atagcggcct ttctatggag tcaattcatg ttctgatcc tgtcatttct 240
atagcaagaa acccgtctaa caagaatgat actgaaaaat tttcaaagtt tttgcaggtt 300
acagagaaga ttccacatta tagtcacttt gacactgcag caaaagacat tgntttgtat 360
gggagattac actggaattt ttctcacgaa ggaagagata tgnttgcttg ttacagaaa 420
acatagtgtt ttaagaattt ttgtccctgt cttttctttc cataaaa 467

<210> 660
 <211> 520
 <212> DNA
 <213> Bovine

<400> 660
 gcacgagggc accaccagcg gaagcgcaac aacctcatga cgctgccggc gcaccggctg 60
 cagcaccgctg tgctgctctc ccgcctggtg gtcttgacc accccaccg ctgcaacgtc 120
 acctacaacg gcaacaacgg catccagtac gtggccagcc aggccgagca gaatgcgtgg 180
 gaagtgggct ccccgccctc ctactcagag gccctgctgg atcaaagacc cgcttggtac 240
 gaccttctc cgccacccta ctcttagaca ctgatctttg aaccaagccg acctgcccct 300
 taccgctccg gtcgtgctg ctgacagcgc cgctcccagc agccacagcc tctgagcgtg 360
 acacaccacc acaccgggc acctgaccgc agaggccccg tgaccaggga ctgccccag 420
 caggcatgag acaataactt gcttttcagt tttttggtct ttctttgctt atgtctaaac 480
 tgcgctacga gttctcgggc cttagggggt tgagggcggt 520

<210> 661
 <211> 618
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(618)
 <223> n is a, c, g, or t

<400> 661
 ggacgagggg cagcatcggc ctttgcaggg ggggcagcag caccaggctc tgcagcggca 60
 acccccccca gcggcttaag ccatggcgct ttacacggaa ttcagcagca gccttgctgt 120
 aaccgacaaa gacatcttcg aattaaacac attcctcgag ttaaacacca aaacctcgca 180
 acatggacga gatgaacttt ctgagcaggg aggggtgagg gggggacttc gtgtccccct 240
 tcgaccagtg ggggtgtggg gcgtggaaaa gagcctaaga ctactaaatg acaacctgga 300
 gggggccaag cacttcaaac atcatgggtt ctctgcgaa agggtaagca ggctcctccg 360
 aatggctggt gtggatggtt ggnctcaaaa acagaaagga gatgcttctc cggaagatgg 420
 atgaggagaa aagattgaag aggtgatttg atatctgtag aaagagactg aaacagacaa 480
 tgacctgcca gccgagaacg ggaaccctta ccctaacaga aatacaagaa ccccaaacaa 540
 ccaatgcact ccaagataca catgacaggc cctccttttc ccttcctccg gccctgctcc 600
 cctattcttt ttattaga 618

<210> 662
 <211> 594
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(594)
 <223> n is a, c, g, or t

<400> 662
 ctccagctcc tttccatctg aagctgagtg actctccatt ggactgactg ggcagcctgc 60
 ctcccccttac ccgggacgcc agtaccgtct cattcttggg taccaaattt ccactttgca 120
 ccccaggttc tctctcacat tcccaagtcc ccactttgag ttcttgtgta ggaatcccaa 180
 attgcctttg gtaaggggcc catcacttac ctccaaactt tcttaagcca atagtcttgc 240
 ctctgagcta caagcgctac agtaagggcc tgctgctcca tttcaagctt cttcaaaaact 300
 gactcctgcc agcaaagggc cagaaactca gtttggtgc cctgctggtc tctgggggtc 360
 catttgtacc ataaatgcaa tttgggaaga agaggagaag caagnngagc ctgatttcct 420
 aattatggtt atctgcttct tggtcctgtg ggaagntggc ttactgaaac aaaaggagct 480
 gctgctttat gtgggcttta aattatctac tataaaattt caaataatac tattttttgt 540
 tttattttta aactatttta aatttgtttt tcttacatag ttaaagaagg aaat 594

<210> 663
 <211> 539
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(539)
 <223> n is a, c, g, or t

<400> 663
 gaacgaggaa atcttatgtc atgggtaggc gtgtaatatg gggacactgt gtttaaaaga 60
 aaagaaaaaa acaaaaccca catgccacca tttttctgaa tcaaattcta cagggggaatg 120
 gggggtaaag acttctactg tgcaggcagc tagattggga aatgggggaa ctagaagcaa 180
 cgagcactgg agagccctct acactcttcc ccgctggcat cctattgctt tttggactat 240
 gaaggagaaa agaaaaata gcaagcacgt tcacatcctt gccctgttat caactgggcc 300
 tggcgctctg ctagtcattc ccttcctttt tcctctatcc atttgtcaac ccttgagaag 360
 catgattcac ctaaaatcca ggaccgggaa ccttgatntg agagtctggg ctctctggct 420

ctttctgctc cttgcagagc accaccagct ctgcctcagc cacgctctct ggcagatgga 480
gatctggctt ttctgccac ccaaccatag catagcttaa catacacttt attaaaata 539

<210> 664
<211> 671
<212> DNA
<213> Bovine

<400> 664
tatgtggaag tgatggaagt gggggctctg tgggccctgc tgggtccatt gggctctgtct 60
ggccctccag gcttcccagg ggctcctggc cccaagggtg aaactcggga cctgttggtta 120
actcctggcc ctgctgggtc ccgcggggtc cccgtgggtg aagtggggcc tcccagggtcc 180
tttctggccc tgtcgggacc tcctgggaaa ccccgagacc aatgggcttt ctggggctaa 240
gggtgctgct ggccttcccg gtggtgctgg ggctcccggc ctccctggac cccggagtat 300
tcctggccct ggtggcgctg ctgggctact ggcaccaaact gacttggttg tgagcccgcc 360
ccagatggtc gaaaggagag agcggcaaca gggcgagccg gggctgcggg gaccaggcc 420
tctgccccaa gggaaagaag aaataagctc actggaaaat cgacccgctg cccccagAAC 480
tctgggtgag ggaacctggt ccggggcact ggacgacgca actgggcatg gccgcggtgc 540
ggggctcggc tgtgggggag gccatgtaat tggggctggg actggcttgg accagttccg 600
tcctgaattg ccatgtaaag tttggttctg tttaggaatg cctggcagga aaaaaatgat 660
tttcttcac c 671

<210> 665
<211> 598
<212> DNA
<213> Bovine

<400> 665
tctacggatc ccccggcctg cgggcttaag caccagaaca gggggaaatg ggcagaatca 60
aaggcaatta tggggcaaat aggacctgga ggcttgccag gctatgcagg aacagctggc 120
cagaaacaaa aagctgacgc agaagggccg ggcggtctct gagagtgagg aagaggggga 180
aggacaggag gaggaggaag aacctcttgt ccctgacctg gggaatgagg tgcagataaa 240
ggcagatgga ctgaaccctt ggatgttccg gaatcaattc tttgatgcca aaggagctga 300
gggccacaaa gaactggaag atcctgctga gcctggagcc cagaagactt ctgaaagaga 360
ggaaaaaaaa gcagcggggg aggaagaaac ttttttgaaa gaatttgagg aaagggaac 420
acttacacaa aacactgacc taatcaatgg gagacctggg cacaacgga acaaaggatc 480

ctacaaccac gcaggggtgcc gattgaggcc ctgggcagaa accccacgga aacataacca 540
ggaacaaaat gaatcacggg aaagacaaag aggaacgggc ggggggaagg gccttgtg 598

<210> 666
<211> 562
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(562)
<223> n is a, c, g, or t

<400> 666
cttttttgaa aaggaaactg aaagaaagag ggcaagacta tttaagagct ggtagctgca 60
ctgggcagtc tcagctcctc agctcccggg cgggaccagt gggccacctc tgcaggggac 120
tcttgccacc gggcttgtct ggaccactga gcaaactctc cagcacccca accagctgtg 180
aacatcttcc cagaaaatgg cagacatgtc caatggcgag cagggtgtg ggtccccct 240
ggagctgttc cacagcatcg ctgctcaggg gagctcgtaa gggacctcaa agccagaaac 300
gcagccagga tgaaattgat tctgagtga gatgtgttgt ccttaaaaag agctacaaac 360
tgccacaggg aggatacaag tgggactgtc ctgaggacc cgcgcccgaa gggggaggct 420
ggagccaccg agcaacagac ttgtgatnct ggaaagcaac aacaggccaa gcatgatata 480
cagctattgt gattgaacag aaatgaagag tgnaaacgaa aaagacagac aaacaacgct 540
ctgcagtatt ttttaacaaa tc 562

<210> 667
<211> 601
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(601)
<223> n is a, c, g, or t

<400> 667
gcacgagggg caacatgact gacaatgatc ttatcaatat tcttgaccct ttttatcatc 60
tttcaactaa aagtttcaaa acacaacttt tatcacaatc caaaactgac accaacaaaa 120
atattaaaac aaaacacccc ttgagaaaca aaatgaacga aaatttattt acctctttta 180
ttaccctgt aattttatgt ctccctctcg taacccttat cgtactattc ccaagcctac 240

tattccaac atcaaaccga ctagtaagca atcgctttgt aaccctccaa caatgaatac	300
ttcaacttgt atcaaaacaa ataatgagta tccacaattc taaaggacaa acatgaacat	360
taatattaat atctctgata ctatttttga atcaaacaac ctactagncc tattacccca	420
tcattcacac caacacacaa tatcaataaa ctagcatagc ctcccctgga gcagagccgg	480
attacaggat tcgcataaac taagatcact gtcatttcta cacagnacac cactcctatc	540
catatagant atgaacttag tctttttttac tagtctncgg cgtacagtaa tatgagaact	600
a	601

<210> 668
 <211> 422
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(422)
 <223> n is a, c, g, or t

<400> 668	
gcacgaggct cacattcctg cagacctcca gactgcccgagg agcttgccctg ctgcctgcct	60
gcctgccact gaggggtccc aacaccatga gggcctggat cttctttctc ctttgccctgg	120
ccgggagggc cttggcagcc cctcaacagg aagccttgcc tgatgagaca gaaagggagg	180
aagaaaccgg ggccgagggg gccgaggtac ccgcgggagc caaccccgtc cagagggaaa	240
taggagaatt cgatgatggt gccgaggaaa ccgaggagga gnggtggcc gagaaccctt	300
gccacaacca cactgcaaa cacggcaagg ggtgtgaact gnacgagaac aacaccncat	360
gtgtgtgtgc caagacccca ccagctgccc tgccccacg ccgaggtgag aagnnggcag	420
ca	422

<210> 669
 <211> 381
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(381)
 <223> n is a, c, g, or t

<400> 669	
cccggagctt gcctgctgcc tgccctgctg cactgaggg ttccaacac catgagggcc	60
tggatctttt ttctcctttg cctggccggg aggggccttg gcagcccctc aacaggaagc	120

cttgctgat gagacagaag gggaggaaga aaccgtggcc gagggggccg aggtaccgt	180
gggagccaac cccgtccagg gggaagtagg agaattcgat gatggtgctg aggaaaccga	240
agaggaggng gaggccgaga acccctgcca caaccaccac tgcaaacacg gcaaggggtg	300
cgaactggac gagaacaaca ccccatgtg tgtgtgccca gacccaccca gctgccctgc	360
cccatcggc gagttgagaa g	381

<210> 670
 <211> 446
 <212> DNA
 <213> Bovine

<400> 670	
ttttatttac aatgctaagg gctaattgtt tttatttata atactaaatg ctaatattct	60
ttgttgttta tttccctca aacttcaacc tttaattaaa ttatcatctt taagcttttg	120
cattttgttt taatgactgg ggtcttagag ccattgatgt cttatgtttg tttttcaaat	180
catattttta tttctgctgt tgtggatttg ttagctatt tgaatcatgg gctgttgctt	240
ccattgaagg atcttctgcc ttttactgtg ggataactgt taaaatttat ggtgaacttt	300
ataagagctt attagcatta aagcagccac ccgagagaa agggaaacca atctggaaag	360
ctgtggagta ctcatagaat actaatatga ggaccaagga ctactagcaa cctgagccat	420
ttccacctaa acgggaacgc gttgag	446

<210> 671
 <211> 501
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(501)
 <223> n is a, c, g, or t

<400> 671	
gcacgagga aagattcatt ggagattggg accaggggtt caaagattca ctgggggttg	60
taccttactc tccaaaaaga gcaatataga gatgtctcac aaagttcatc ctaaacctat	120
tttctaattt gggaagctaa aagatcacag gcaatgtaaa acatccattt ttatcactgt	180
catttgtttt cttattacct ctctctagta tcttccactt ctaattatat atatattata	240
tttttttttt ttggggggag ggggataata agtctttatt tcaccatcaa ataaattcag	300
gtcatgtcag tttggtaacc aaatggatca taagaaaaat gtttgctcca tattttttta	360

attgtaaatt aaaaaaaaaa aaaaaaactg agggggggccc gtacccattc gcccttatgt 420
 agtgtataca ttactgtcgt ggttacacgt gngactggaa acctgccgtc ccactatcgc 480
 tgcacctccc ctgcccgtgg g 501

<210> 672
 <211> 564
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(564)
 <223> n is a, c, g, or t

<400> 672
 gcacgaggcc tcacagtgcc tggccaagcc ctggcctgtg ggagcaacag ggtcaacaag 60
 ctgggcctgg accacctctc cctaggggag gagcctgccc tacaccagca aggggaggag 120
 gccctgaact tcactccatt aggttctgca cccttgacc aggagcccct gctgagtgtg 180
 gatttgggca ctgctcattc agctggtgta actgcctctg gtgactgcta cactttcggc 240
 agcaatcagc atgggcagtt gggtagcaat gctcgccggg tcagccgggc accctgtcaa 300
 gtccagggcc tccagggcat caagatagcg atggtgggct gggggatgcc ttcactgttg 360
 ccattgggca gaagggaagg tactcctggg caaagggcc gagtncgctg ggagagagag 420
 nagacgccga ctctaggca ggcagtggag agaccacct accatgacct tgtgcctgtg 480
 cctgcacact tctgcttcgc cttacgagaa catgccctg ccactgatca tctgtacctg 540
 atgtttctgg agttgaagga ggca 564

<210> 673
 <211> 559
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(559)
 <223> n is a, c, g, or t

<400> 673
 gcacgaggaa gaatctctct ttagttcttt gtacggaggt gaaaaaata aaaaaatcct 60
 tcaaaaatgg caatggatc tgaattcctc aagcaggcct ggtttattga aaatgaaaag 120
 caggaataca ttaaaacggt gaaaggatcc aaagggtggc ctgggtcagc agtgagcccc 180

tatcctacgt tcaatccatc ctcggatgtt gaggccttgc acaaagcaat cacagttaaa	240
ggtgtggatg aagcaaccat cattgaaatt ctgactaaaa gaaacaatgc acagcgtcag	300
cagatcaaag cggcctattc tgcagagaaa ggaaagcccc tgatgaagtt ctgataaagc	360
cctcctcgtc accttgagag ttgttttgct tctttgaaac tcagccagtt gagccgagac	420
tcctgctgcc tgaaggcctg gacgatgaga ccttgatgaa tctgcatcag actacannaa	480
atcaaaatac aaacttanaa aactagaaaa atgctaagac tgctcaacct tgaatataag	540
tttgtgttgt tgtgccgtc	559

<210> 674
 <211> 506
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(506)
 <223> n is a, c, g, or t

<400> 674	
gcacgagggc ctaacacaaa ttaagaatat gtttcagttt atatcatatt tcaaaacaca	60
tttaactgtt tcttaaagct ttacatTTTT agttacaacc tccagagatt ttgagcctca	120
ttttcttcaa tacttgaaat agaggagct agaacacttc atcatgtgta atctgataaa	180
cctgctgcaa gagccataat tttgaggact tttctaaggg aattgtgggg atccaggatt	240
tataatttct tgatctaaac ttgcataaag gaaataccac acgtgcacat ttcatagtat	300
gaaataagaa gtcattttta cactttatta tctaagtaat atatgcacct ttcataatcc	360
atgtgtgttc actaagcatg ttatataata tgattgacag atttgttttt ttctanaata	420
aatattttgtg gggtttttgtt tgttacaata tcattttgct attaacatgc aatagacgga	480
tgtgcctttt ataagatagt ttcggg	506

<210> 675
 <211> 560
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(560)
 <223> n is a, c, g, or t

<400> 675	
cgagatgggt ctcttgccgc caagggtgac cgtggggaga ccggccctgc tgggacctcc	60

tggtggctcc	tgggcgctcc	cggttgcccc	cgggccctgt	cgggacctgc	cgggcaagag	120
gcggtggatc	gtgggtgaga	ccgggtcctg	ctgggtcctg	ctgggtccca	ttgggccccg	180
ttgggtgccc	gtgggccccg	ctgggacccc	aagggtcccc	gtggtgacaa	gggtgagaca	240
ggcgaacagg	gcgacagagg	cattaagggg	caccgtggct	tctctgggtct	ccagggtccc	300
cccggccctc	ccggctctcc	tggggagcaa	gggtcctttc	cgagcctctg	gtcctgctgg	360
tccncgcggg	ccccctgggt	tgctggttct	cccgcaaaaa	tgactaatgg	tctcccagcc	420
ccatcgctcc	ctgggctgna	gnngaactgg	gaggtggtct	gctggtctcc	cggcctctga	480
cccctgnccc	cagcctccac	gagatacatt	gactactgcc	caccacctaa	aaagatagag	540
tgtcgggtatc	ggcttgtgca					560

<210> 676
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 676	
gcacgagggg	caccgtgggt tttctgggtct ccagggggccc cccggccctc ccggctctcc 60
tggggagcaa	ggtcctttcg gagcctctgg tcttgctggg tccccgcggg gccccctggg 120
tttgctggtt	ctcccggcaa agatggactc aatggtctcc cacgccccat cgggtccccct 180
gggcctcgag	gtcgactgg tgatgctggg cctgctgggc ctcccggccc tctgggacct 240
cctggtcccc	cacatcctcc cagcggaggg tacgacttga gcttcctgcc ccagccacct 300
caatagaaag	atcacgatgg tggacgctac taccgagctg atgatgcat gtggggcggtg 360
accgggactc	gagaggacac cacctcaaga cctgagcaga aatcgagaaa tncgaacctg 420
nagcagacgc	agaccccgcc gacctgcgga ctcaaattgc acttgatgga gaaggagata 480
atgatgacct	accagctgca ctgatgcata agtcttgcaa tggaacggga gactggatac 540
ccctatccac	ggac 554

<210> 677
 <211> 544
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(544)
 <223> n is a, c, g, or t

<400> 677
 cggttcgacag atagccggaa cttctgtgct gtgccagccg catccctgag aaaaagggga 60
 aggtcggagt gaacggattc ggccgcatcg ggcgcctggg caccaggctg tttttaattc 120
 tggcaaaggg gacatcgtcg ccatcaatga ccccttcttt gtccttact acatgggtcta 180
 catgttccag tatgattcca cccacggcaa gttcaacggc acagtcaagg cagagaacgg 240
 gaagctcgtc atcaatggaa aggccatcac catcttccag gagcgagatc ctgccaacat 300
 caatggggtg atgctggtgc tgagatgtgg gggaggcact gnngttctca ctaccatgga 360
 gaggtgtgct tcacttgagg gggagccaga ggtcatcatc ttgccctttg ccagccccct 420
 gttgggaggg gggaacagan aanatacaca ctcaaatgca catgctccgc acacacgctg 480
 cccccgccag catctacact tgcattggaga ctatacatc agcctcctca caaatggag 540
 gcc 544

<210> 678
 <211> 591
 <212> DNA
 <213> Bovine

<400> 678
 cggaaccac gtaccggcaa actggcctgg ctcccgggca ggagtatgat atatccttgc 60
 acattgtgaa aaacaatacc cggggccctg gcctgaagag agagacaact acccgcttgg 120
 acgccccag ccagattgaa gggaaagatg tcacagacac caccgctttg atcacttgg 180
 ccaagcccct ggccgagatc gatagcattg agtcatgta cgggatcaaa gacatgccag 240
 gagatcgtac caccatcgat ctcacacacg aagagaacca ttactccatt gagaacttga 300
 agccggacac cgagtacgag gtggccctca tctcccgag ggccgacatg tccagcaacc 360
 ccgacaaaga gaacttcaca aacagcctgc atgcgcccag aaatctccgc cgcattctcc 420
 aaacagacac agcatcacct ggagtggagg aacgtcaggc agccgccgac agtaagaatt 480
 aatatgctcc atcttggagc gacacgcgga gagaagacct agaacaaca cacaacaac 540
 acctacaggc tgaggcagaa gatttggttg ggggtggtga agagaaggaa g 591

<210> 679
 <211> 499
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(499)
 <223> n is a, c, g, or t

<400> 679
 ctgaaattta aggaatataa tctattgctt tatttttgga ctggtttgca gcatgtgatg 60
 ttcattttct gtgtacatga tatgtcctca tctggatgct aaactcagga aatcagagaa 120
 atgcatatgc gttttctatg ttgatttctc cttttcttaa tcatgcttgt cttaaaaaaa 180
 atattatcta aaatttactg ggaactggat tcatagctgg caccttgttt ttatgtaaac 240
 agattgcaga tagaccaaag atcatctgga ccattttgtg gttccctgcc tgtcttctga 300
 ttatcgctct ctcatccatc ctttctcttc tagaaatttt ccttttctgg tcttctcctt 360
 atgcttcttt gatctctgac tttcagtgac ttangggaat agttacattc ccctggatta 420
 nctgntagct acctcctgca tcccttangg atttttatct taattctaatt ttgtcttcag 480
 ttanatcctt ctccaatgt 499

<210> 680
 <211> 567
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(567)
 <223> n is a, c, g, or t

<400> 680
 cgccactgaa gatcctgggtg tcgcatggg ccgccgcccc gcccggggtt accgggattg 60
 taagaacaag ccgcacccaa agtctcgctt ctgtcgaggg ggccctgatg ctaagattcg 120
 catctttgac ttggggcgta agaaggccaa agtgatgag ttcccactct gtggccacat 180
 ggggtgagat gagtatgagc agctctcctc tgaagccctg gaggtgccc gtatttgtgc 240
 caacaagtac atggtgaaaa gatgtggcaa agatggtttt cacatccgag tgcggctcca 300
 ccccttccat gtcacccga tcaacaagat gttgtgttgt gctggagctg atagactcca 360
 gacaggtatg cgcggtgcct ttgtaaagcc ccaggcacag tnggccaggt ccacttgncc 420
 cagtcatatg tccatccga ccagctgcag acaaggacat ggattgagcc tccgcggccca 480

gttcagttcc tgccgcacaa atcaatctta taatgagatt acaagtcacc gagattgaga 540
atgagagaaa ggatatcaac gctggggg 567

<210> 681
<211> 569
<212> DNA
<213> Bovine

<400> 681
cgccactgaa gatcctgggtg tcgccatggg ccgccgcccc gcccggggtt accggtattg 60
taagaacaag ccgtacccaa agtctcgctt ctgtcgaggt gtccctgatg ctaagattcg 120
catctttgac ttggggcgta agaaggccaa agtggatgag ttcccactct gtggccacat 180
ggtgtcagat gagtatgagc agttctcctc tgaagccctg gaggctgccc gtatttgtgc 240
caacaagtac atggtgaaaa gctgggcaaa gatggttttc acatccgagt gcggctccac 300
cccttccatg tcatccgcat caacaagatg ttgtgttgtg ctgaagctga tagactccag 360
acaggtatgc gcggtgcctt tggaaagcac cagggcacag tggccaaggt ccacattgtc 420
cagtcattag tccatccgca ccagctgcag aacaggaaat gtgatgaagc ctccgcggcc 480
agttcaagtc ctgccgcaca aatcacattt aaattgggat tacaagtcaa gcgagaatgg 540
aaagtggaga aaagatatcc aaggtgggg 569

<210> 682
<211> 538
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(538)
<223> n is a, c, g, or t

<400> 682
ctggtggtgc tgtctcaggg gctgaagccc ataaggccct caggaaagca gaaagcttgt 60
atatatctct ttgtgtcgtg gaagccaaag tgaaggccca ggccgcgccg aacagggacg 120
tgcagagaga gattgcggac ctcggtgagg ccttgccac tgccttcac cctcantggc 180
aaaatgatga attacgggag aattttaagt atctgaataa ggtcatggat gacctatacc 240
gggctagcaa agccgatgtg cagaatcggg tgttgagaa gactaatcaa ctcatcgaca 300
gcagccccaa ccagcccctg gtcattgctg gagtggagag cggcgccctg gccaaaggcct 360
gatcgaagcc tgtactcttt anatgcttcc cccacacgc cgtctgctct ttacatggat 420

acgagccgca gatactgctt ggtcagtacc cacatgcagc acggggctga ggcatgaggg 480
ggagaggggtc agctgtgatg caagagagga aacggctgta gccagcagag ggctctgt 538

<210> 683
<211> 568
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(568)
<223> n is a, c, g, or t

<400> 683
ggagcgagcg ccatgggtgct gctgcacgtg cttttcgagc acgcgggcg ctacgcgctt 60
ctggcgctga aggaggagga ggagatcagc cttctgctgc cgcagggtgga ggagggcgtg 120
ctgaacctgg gcaaattcca caacatcggt cgtcttggtg ccttttgtcc cttttcctcg 180
tcccaagttg ccttggaata tgccaacgct gtgtctgaag gtgttggtca tgaggacctc 240
cgctgtctct tggagactca cctgccaccc aaaaagaaga aagtacttct gggagttggg 300
gacccaaga taggtgcggc tatacaagag gagttaggtg acaactgcca gactggaggt 360
gtcatagccg agatccttcg aggagttcgt ctgcacttcc acaacctggt gaaaggtctg 420
accgatttgt ctggctgtaa agcccaactg ggctgggaca cagctattct gtgcgaaagt 480
taagttatgt gaaccgatgg acacatgatt atccagtcta tancctcctg gacactggaa 540
aagatatcat acttcttctg cgtgtagg 568

<210> 684
<211> 395
<212> DNA
<213> Bovine

<400> 684
cttaattcaa agaggggtgg aaacgtggag cagcgggaagt cttcctgggc gcctagattc 60
ccgggagggga aggaggagct gactgggaat aattttttct cctcaccacc cagcccccg 120
gatatcgccc tcggcactca ccatgaagaa aaatgaatag agggggggca catggatttc 180
cagtagccgc cgagtgtggg aactcccagg tttgcttttt atggttttct ggtgaaaagc 240
ggcatgtgaa caaatccatg aacaaacca agagctgtga atattcgac agaaggtgct 300
ggggcgaggt gggaggcggc ggcaactagc cttcaggtgg gagggagaga gaagatcgcc 360
ccactgacct tgaagacctc cctgtaagtc ccacg 395

<210> 685
 <211> 386
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(386)
 <223> n is a, c, g, or t

<400> 685
 gcacgaggct ctttctgtaa aaggtgcaga ggtggcatca atgacgatga atgtgatcca 60
 cactgtgcct aacttggatt ggctttctgt gtggatcaaa gcctatgctt ttgtgcatgt 120
 tggtgacaat tcgagagcaa tcaataccat ttgttcacta nagaaaaagt ccttggtgag 180
 agataacgcg ggacctactg ggaagcttag cagatctgta cttcagagct ggagacaata 240
 agaactctgt cctcaagttt gaacagcaca gagttggatc catatctaata aaaggaatga 300
 tgtgtatggc tatctccctg cagagaagac gatggagnag nnggagacct tgctgccgcc 360
 ttttatatat ctgaccacag cacacc 386

<210> 686
 <211> 555
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(555)
 <223> n is a, c, g, or t

<400> 686
 gcacgaggcg gagacgcgag gagcaggagg ctcgaggagaa ggcgaggcc gagcagagga 60
 gcaggagcgg ctgcagaagc aaaaagagga ggccgaagct cggcgccga gaagaagcag 120
 agcgggagcg tctggagcgg gaaaagcact tccagcggga ggagcaggag cggcaagagc 180
 gtataaagcg cttggaggag attatgaaga ggactcggaa gtcagaaact gctgaaacca 240
 acaagcagga cagaaggagg cgacggccaa caattccagc ccacggatag accctgcgaa 300
 agctgtggag ggtcggcctg cggggctgca gatgaggagc tgggccccca gagcctcatg 360
 ggagcctgcc aacaagaagt cgctgggtcc ctggtgatgg gctgcagctt gccacgcacc 420
 agataacggt tntctctatg gaccctcnga caagagtggc ncgacgcaca gctctctgcc 480
 ttccaagcat aactattata aattggtgca gccctagcca taatcttagg ttgctgttca 540
 gccagtatag ctctt 555

<210> 687
 <211> 385
 <212> DNA
 <213> Bovine

<400> 687
 tttcagagat ggaggcaaac atgaaggga agacatgtaa tgaagatttt tttttttttt 60
 aatcgtgggc tttttttttt ttccaaagca atgtttaaac taataaatat ttttttatga 120
 aggggaaagc gggaaaatca catctcacat ttttgtacct tcccgtgtat gcgtcggggg 180
 tcggcgtctg catcaccaac gcggaagggt ggccatcagg cggctcgttc tttggggtag 240
 gggagggggc gagaaccaag attttgcac aagctctgga tcctgacggg gttgtatggt 300
 gggactctga gttggggaat agtcacaaca ctgccagaac tggataggga cctcgattga 360
 aaggacacag ctactgcttc cactt 385

<210> 688
 <211> 408
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(408)
 <223> n is a, c, g, or t

<400> 688
 gcacgaggcc caggcgggaa ggcgtggagg ctctgtggt agccctcctg agctgtgctg 60
 gaagcctgga ctgaccaatc acccaatccc agttcttctt gcaaaactct gtggccagcc 120
 tggcatcagt tcaggcctct gctgggggga ggggggcccag gcctgggtgt ctaaatgcag 180
 gcagctggca gagggggggg gggatatgtt ccatgggttac catgggtgtg gagagaagtt 240
 gggggcccta ctctcccagc tgagcggccc tgcggcttca gtgcatgcat tgatgcgtnt 300
 ctgtcctgag gctcatctgt gtgtgtgttt gtggtttaaa atactatgtt tgcccctcct 360
 cacaaaaaat gcacttgat attcccttta gtgaaaatgg taagggat 408

<210> 689
 <211> 278
 <212> DNA
 <213> Bovine

<400> 689
 gcacgaggct taaccactg gggtttataag aagtatccaa acgtgtttta gaagatccga 60
 ggcattgtgg aagagagcgt gactgggggt cacaggctgt atcagctctc caaagctggg 120

aagctctgtg ttccggccat gaacgtcaat gattttgtta ccaaacagaa gtttgataac 180
 ttatactgct gccgagaatc cattttggat ggccctgaaga ggaccacaga tgtaatgttt 240
 ggtgggaaac aagggtagtg tgtgggttgt ggaagggg 278

<210> 690
 <211> 519
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(519)
 <223> n is a, c, g, or t

<400> 690
 gcacgagggc gcaactgcgc cggcccagct tctttcaaaa tgtctaccgt tcatgaaatt 60
 ctgtgcaagc tcagtttgga gggatgatcac tccacacctc caatgcatac gggtcagtca 120
 aagcgtacac taactttgat gctgagcggg atgctctgaa cattgaaaca gacatcaaga 180
 ccaaaggtgt ggatgaggtc accatcgtca acatcctgac caaccgcagc aatgaacaga 240
 gacaggatat tgccttcgcc taccacaaaa ggaccaagaa ggaacttgca tcagcactga 300
 agtcaggctt gtctggccac ctgagacagt gattntggnc ctattgtaaa tactgctcat 360
 atgatgcttc tgactgaaag cgtcataagg ggctgggact gatgagactt ctattggaac 420
 atctgctcag gacaaccaga ctgcagaatc acagagttta agaaagtaca aacgattgga 480
 aagaattgnt tcgaacattg ggattcgcag tgaggcgcc 519

<210> 691
 <211> 527
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(527)
 <223> n is a, c, g, or t

<400> 691
 gcacgaggat attccatttt gcattttccc cctaccccca agaaaaagaa atgcaaaaag 60
 gcaaaatggt tgtttgagga ggttttacia atagatgaga aaagaagaga agcgaaaagc 120
 aaaggagaaa aggaaagata catccatctg aatgcagagt tccaaacaat atcaagcaga 180
 gatttaaaaa agccttccta agtgaacaat gccacaaaag gtccatctat tcaaagctgt 240
 ggtttttcca gtagtcgggt atggatgtga gagttggagt ataaagaaag ctgagcgcca 300

aagaattgat gcttttgaac tgtggtgttg ttgaagactc ttgtnatccc ttggactgcn 360
 aggaatcaca tcatatcatt ctaagnaaan actcctgcat attcctggag gactgagttg 420
 aagctgaact ccatactttg cctctgatgc aacactgact catgaagacg tgatgtggga 480
 gatgcagnag agagagggag aagagatcaa ggtggatgct cctgctc 527

<210> 692
 <211> 544
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(544)
 <223> n is a, c, g, or t

<400> 692
 gcacgaggat attccatttt gcattttccc cctaccccca aaaaaaagaa atgcaaaaag 60
 gcaaaatggt tgtttgagga ggttttacia atagatgaga aaagaagaga agcgaaaagc 120
 aaaggagaaa aggaaagata catccatctg aatgcagagt tccaaacaat atcaagcaga 180
 gatttaaaaa agccttccta agtgaacaat gccaaacaag gtccatctag tcaaagctgt 240
 ggtttttcca gtagtcgggt atggatgtga gattggagta tatagaaagc tgagcgccaa 300
 agattgatgc ttttgactgt gngntgttga agactctgag agtcccttga ctgccagaat 360
 caatcattct tctaaagaat cagtctgata ttcttgaag acgagttgaa gcgaactcat 420
 acttgccctc gagcaagact gatcattgaa aactgatgtg gagatgcaga gagagaggag 480
 acgagacaag gtgatgctcc tgctcctgag attggaatca ggtggaggac ggacgctgtg 540
 ggcg 544

<210> 693
 <211> 492
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(492)
 <223> n is a, c, g, or t

<400> 693
 tggatgtgca aaattattct tccatactga gtatgagaaa acaactccca gaggaaacct 60
 tatggatata aagaggggtg gaagaccctc aggcaaaaga aggtcttagt ctacatcaga 120

gaattaaaaa tggagagaaa ccctttgaat gtactgcctg taggaaaact ttcagcaaga 180
 agtcacacct cattgtacac tggagaactc atacaggaga gaaacccttt ggatgtacag 240
 aatgtggaaa agcttttagc caaaaatctc agctcattat acacctgaga actcatacag 300
 gagagcgacc ctttgagtgt ccagaagtgg gaaaagcttt cagagaaaaa tctactgtca 360
 ttatacatta caggactcat acagcagaga aacctatgaa tgtatggaag nnggaaagcc 420
 ttcactcaaa gtcaaactca tgtccatcac aaaccccaca gagaaaaact atgatgccca 480
 atgggggatc tt 492

<210> 694
 <211> 511
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(511)
 <223> n is a, c, g, or t

<400> 694
 cggcgggcggc tcccgtcggc cttctgcaag actgaccgta gggaggccgg aaagcgggcg 60
 cgcgcgggcg acaggcgggc gggaggccgg agcttattga atgaaaactg ccagagactg 120
 aaaaaccaa catgagggga gcaggtgctg caaagttggg ggtcgctgtg gcagtatttt 180
 tactgacatt ctatgttatt tctcaagtat tcgaaataaa aatggatgca agtttaagaa 240
 atctatttgc aagggtcagca ttggatgcgg ttgtacgttc tacaaaacct cccagatata 300
 aatgtggaat ctcaaatct tgccctgaga agcattttgc ttttaaaatg gcagtggagc 360
 agccatgtgg ggggacccaa atctgcctag agacatgttt tatgagtggg gtaaaaatag 420
 ttgaaanaga atcaagntgc ctggtaatgg caaacgaag actaaaacac caattttgac 480
 tgggggggna agggcccttt ttattctaag c 511

<210> 695
 <211> 537
 <212> DNA
 <213> Bovine

<400> 695
 gcacgaggcg ggccttctga gcatacttta tttccgctct acttgctgcc tgctgcttac 60
 tcatcctgat agtaccacta tcttttaaac tctaacata taaagggata aacaaaaatg 120
 atttgtgggg atggagagaa gaataggatg atggcactta gtaaaactga tgtataccca 180

gtatatcatt tatcatttgc tgggtaacaa ataaccccct caaatgtagt ggcttcaaca	240
ccatttattt atctcatgat tcaaagtcag tagtttgagt tgagttcagt tgggcgggtt	300
ttctgctcgt ggttgggctc actctatggg cagttgctag gcagggggat ggctagtgtc	360
tagagtagac ttaaccaa at gactatctct gtttcacatg ttctgtctat attcactagc	420
cacctgggct gttgactata gctgcatgat acaggaggat agaggacccc acctatcctc	480
tctgagcctg ccctgcgatg agctagagtt tttttgataa caatagaagg aaactga	537

<210> 696
 <211> 432
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(432)
 <223> n is a, c, g, or t

<400> 696	
gcacgaggat ccatgggcac tatgcaaaaa tcggcaccgt cctgaccttc ttttgtaaca	60
gctcctatgt tctcagtggg aatgagatga gaacttgcca gcaaaaggag agtgggcagg	120
gaaacagcca atctgcataa aagcctgccg agaaccaaaa atctcagacc tgggtgagacg	180
gaaagttctt ccaatgcagg ttcagtcaag ggagacgcca ttacatcagc tatactcatc	240
aaccttcaac aagcagaaac tgcagtatgc ccctaccaag aatccagtcc ttccctttgt	300
agacctgccg cctgngtacc aacatctgca caccactca tacgagtgca tctcaccttt	360
atcngcgtg gcagcaccgg agacggtcta agatgngagg gaggggcggg cccatctgct	420
nctattgtgg aa	432

<210> 697
 <211> 528
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(528)
 <223> n is a, c, g, or t

<400> 697	
gcacgagggg aagccctctt ctttgttggg tatccatctt aaatgtagca gtgtgcacat	60
gtcagtccca aactccctaa ctatccctcc cccaaatcag aatttttagtt aggaatggga	120
attcctgtag ttacatagaa acttagagag aggcagcttg ttgaagggtta tagaactatg	180

cagctagtca cagagctaaa accacagaaa ggtatctcta ttcctttttc ctgtttatac	240
tctatcagat tgcataattta ccttatggag gaaaaaaca gatttaagaa atctgtttat	300
ggcaccaata ttttttcttt caagctttgt ctttcagca ccaaactgta gatgtaatac	360
acaagcacac atactgtgtg tgtgggtgtg tgcatttgtg catgtggatt tttacaaaag	420
ttnttattga aaagcaagaa atatatagca ctgatacctc tttctggaca cagatactgg	480
tttcttaaca tatcacctcc cctctccaaa aaaatttcag cagnaaac	528

<210> 698
 <211> 488
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(488)
 <223> n is a, c, g, or t

<400> 698	
gcacgaggct ctccttacct aagtcagat ttgttttttaa ggcatagaat gtatagcaac	60
ccaccagtt ccaatctgac tgatttttcc agacaagaaa caagcaaact gaccatggat	120
ggctggaggg catcgacacc gactgcagga tacacgatgc cgcaaacagg cagcagcctc	180
ttcatacgag tgtccagcta ctccctggct tccccactgt tgtataaaga aggatttggc	240
tggctctttgt tgccacttcc taagaggaac ctataaactt tcataacttc cttggtgata	300
ggagtgtctt tgttattcat ggtggaccct ttggatctca actttttact taacgaggtg	360
actcatggtg ggccctanat agtttcagga tgggctgggt gtggctgaga gatcaaccat	420
gagatacaaa gctggggcct gagtatctgc ttctgacatc tgggtgggag agagaaaggg	480
aaatgagn	488

<210> 699
 <211> 585
 <212> DNA
 <213> Bovine

<400> 699	
aattcgtgac gaggagagaa ctagtctcgt gttttttttt tttttttttt tttttttttt	60
tttttttttg tttatttttt caattttttaa aaaacaaatt accccaacaa aacacaaaac	120
tccccatccc aaagcagata agcttaacac gttaggggta acaggagaga aagggggttaa	180
gtcacacacg acttgggggt tgggggggtga cgcggccgga acccgggggg gggcacgggt	240

gcttatcgcc ccaaataaat aaacacgggg ccctcccctc agggagagga gggggaaggg 300
aagcacgacg gctggacaaa catgcgcgtt atgccaaaac ctggcttaaa aaaaaagaaa 360
accacaagc aggaacgctc aggacacctg tgagtagggg gggcaggagg ggatcggcca 420
aaagccaaac caccgaaccc gggggcctgg gccccacct gcctcacaga tgcgggaccc 480
caccctggct ttccaataag gagctagggg gacacacca ccctaggcca tcccaggagg 540
cccagcttgc agccccgccc cggttccccg ccattggagc ggggg 585

<210> 700
<211> 603
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(603)
<223> n is a, c, g, or t

<400> 700
ctgtttaatt cggcacgagg ctacagctgca gcccgacccg ttgccgcctg gtaccggggtt 60
gggaacagga gcctaggggt gcttgcagca ggccgtcccg ggcagcaagg tggggggccc 120
tacagcgatg ctccgaggca tgtacctcac tcggaatggg aacctccaga ggcggcacac 180
catgaaggaa gccaaaggaca tgaagaacaa gctgggcatc tttaggcggc ggaacgaatc 240
gcctggggcc cagccaacgg gcaagacaga caaagtgatg aagtcattca agcccacttc 300
agatgaagcg ctcaagtggg cgagtccttt gagagctact ggtccacaat acggtctagc 360
ggtgttccat gccttctctc gactgagttt atgaggagaa ctggattctg ctggatgcga 420
gacttcagaa gnncagcaca gccagatgcg ccaagcanaa aacttgctgg acatcgcac 480
agcggcagga gaaactgact gnaacaggac aacaagacac tanangtact cggctgttga 540
ctcacaatgc attggtatgt gagatctacc cctctctctgc cttctgactt acaaaaaaaaa 600
ccc 603

<210> 701
 <211> 567
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(567)
 <223> n is a, c, g, or t

<400> 701
 gcacgaggct cgcttctccc ggccgcatcc cgcgggaccg gagcgagcag cggggaccat 60
 gttccgacgc aagttgacgg cccttgacta ccacaatcct gccggcttca actgcaaaga 120
 tgaaacagaa tttaggaact tcattgtttg gcttgaagac cagaaaatca gacactataa 180
 aattgaagac agaggtaatt taagaaacat ccacagcagt gactggccca agttctttga 240
 aaagtatctc agagatgtta actgtccttt caagattcaa gatcgacagg aagcaatcga 300
 ctggcttctt ggcttaactg ttagacttga gtatggagat aatgctgaaa aatacaacaa 360
 ggacttggtta cctgataata caaaaaatgc tgacaatgca gctaaaatgc agaccattga 420
 tcatttggtat gtaaatatcc tgatttaaag gctgtgtatg tcttggtac cttctcaatc 480
 cacgtatgat gataactgnaa gctaagcatt gcatttgtcc agacgccgac cagagcatgc 540
 tagcaataat gagaggtgct gtgctaa 567

<210> 702
 <211> 494
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(494)
 <223> n is a, c, g, or t

<400> 702
 caccgccggg gggagaggag gggagcctgt ccgagccccg gccccaagta acgccgccgc 60
 cccggagccg ccttggaagt ctcctcccca ctaattgect ctttgcatac caccggcccc 120
 tgccccacg ctactggta ccactacagc gggacgggac atggcggggc ggggaggcgc 180
 agcgcgaccc aacggaccag ctgctgggaa caagatctgt cagtttaatc tggctctgct 240
 ggggggagtc cgcagtgggc aaatccagcc tcgtcctccg cttcgtcaag ggtcagttcc 300
 acgaatacca agaatagcac attggagcgg ccttcctcac acagaccgtc tgcttgagaa 360
 cacacagtca aattgagatc tgggacacaa tggacagacg gatcacacct gccccctgta 420

tatcgggggc ccagctgctc gggggctaca catcacacac aaaccttgac ggcagactga 480
gaagangtaa gagn 494

<210> 703
<211> 82
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(82)
<223> n is a, c, g, or t

<400> 703
tttttatatc acaatcaata gatttaccaa caaccgggag ctgcaactgc ctctttgaat 60
gggggtgggg tgggggagna gg 82

<210> 704
<211> 351
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(351)
<223> n is a, c, g, or t

<400> 704
ctgctggcca tacctcttaa taatacttga tttttataca ttcacatgtt ttaaagtctc 60
aagtttgtag aagacactag gagaattcca ttccatttcc tggatggttg ctgctctggc 120
tttttaaaac ttggaactaa cgtttattta aagcaaagaa aaatctttta agaggctaaa 180
ttgatgctgc tattattgct gtgaaattgt ataaagatta ggattcatgc cagttttttt 240
aaatctaaaa aatcatgtga ttgcatttaa gggtttatat ttaaaaaaag aaataaagtt 300
ttaagagcaa cacatttact tattatatat gtggaaatac ttgttangtg t 351

<210> 705
<211> 576
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(576)
<223> n is a, c, g, or t

<400> 705
ctgcttgagg acctgctgga gctcctggca ctctgggacc tcaaggtatt gctggacagc 60

gtgggggtggt	cggcctgcct	gggcagagag	gagaaagagg	cttccctggt	cttctctgggc	120
ccctctgggg	aaccggaac	acaaggctct	tctggagcaa	ggggtgaacg	cgccccccct	180
gggtcccatgg	gccccctgg	attggctgga	ccccctggcg	agtctggacg	tgaggagagct	240
cctggggctg	aaggatccca	ctgacgatat	ggttctcctg	gcgccaaggg	tgaccngngn	300
gagaccggcc	ctgctggacc	tcctggtgct	ccctgcgctc	cccgggcccc	cgccccctgtc	360
ggacctgccg	gcagacgggn	gatcngngng	agaccgctct	gctggtctgc	tggtccattg	420
cccgggtgtg	ccngggcccc	cntgaccag	ccccgagnga	caggggagaa	gggacaggcg	480
aaagatagg	cacggggttt	tgttccagcc	ccccgcctcg	cttctggaga	tgactcgagc	540
ttgtcttg	ccccgcccgc	ttgtgtttcg	aattga			576

<210> 706
 <211> 603
 <212> DNA
 <213> Bovine

<400> 706	
ctgctttaat	tcggcacgag
gcagtgacat	tgtgccaca
tgggacggt	ttcgatggg
ggagagactc	cgccatgt
cctgcagcga	caagatcctg
cgctggaacg	tgctggggcc
tgcagggggc	actgttgacc
cacttctctg	agcctgtgta
tctcaaatcc	gtcactctgg
gttacctatt	cagccagggg
cacctgaccc	gcgccatttg
ctgtcgtgtg	acaagagatg
gaagagcggt	tgaggatgga
cttcgacatc	cctttattgt
caaccacccc	aagggtggcc
gagtaagagt	atacaaatcc
aaaaggcaag	atgggagacc
aagagaaaag	gtcaactggt
gtttgggtga	tgctacgact
cgaaatctgg	atggacagag
caccgggagg	accacggacg
aatgtccgga	gaacaaaaga
cattttctta	ttaagagctt
gtcttcgatc	cgaaaaatat
taatctctag	ggagcaaaaa
gtccggatac	aaaacaaact
attaaaattt	gagaaggcta
ggaaggtaca	gccagagaaa
atttactg	gggtggcggt
gggggggttc	agggggaaag
ggg	

<210> 707
 <211> 600
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(600)
 <223> n is a, c, g, or t

<400> 707
 ttcagaatga agctgaacat ctctttcccg gccactggct gccagaagct cattgaaggg 60
 gacgatgaac gaaaacttcg taccttctac gagaagcgta tggccacaga aggtgctgct 120
 gacgctctgg gggaagaatg gaagggttat gtgggtccga ttagaggcgg gaacgataag 180
 caggggtttcc ccatgaagca ggggtgtcttg acccatggca gagttcgcct gctactgagt 240
 aaggggcatt cctgttacag accaaggagg actgaagaga gaaagcgcaa atctgtacgg 300
 ggttgacattg tggatgccaa tctgagtgtt ctcatcttgt catcaggaaa aaagggataa 360
 ggatattcct ggactcactg atactacagg ccctgtgcct ggggtccaaa gaccagcaaa 420
 tccgcaactt tcatctctta tgaanagatg ccgcatatgt ggggaagccc taacaaacgt 480
 agaaactaga ctaagcacag atcacgcctg gactccgant tgcaccaagc gcggttggtg 540
 agataggata taaaaagaga gtggaatgta cttgtagaag agagcagaaa gagaagagca 600

<210> 708
 <211> 442
 <212> DNA
 <213> Bovine

<400> 708
 ctgctgggtt tttttttttt cagtttctaa atcattactt tttattttga aagatttgtc 60
 aaactcttca caccggggca agagtttgca tgattaataa gaagcagttt tttcatgaaa 120
 tgcttgagg ggaacgagtt cttagcctgt gagatccgac catcccattg actttgaaat 180
 ttcttttgat taatataaag aaaaagtggg gaggggagaa gaggaggaac atgctagcga 240
 ctgaaagatc tctggtgaca gccatccaaa tgtgaaaaaa gaaaacagaa aacccaaaag 300
 aaaaccaatt tgccacctgc ctttttctgt tttaccacgc tctgctctc gctcttggtt 360
 ttgtctttct ggttgaaaca gcctccctgc cctgcatctc ctaaagaagt ttggagggga 420
 gcaccctgc cgaccgggga cc 442

<210> 709
 <211> 380
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(380)
 <223> n is a, c, g, or t

<400> 709
 tttttttttg gtaagggtga atgcactttt ggttttttgt catgttcagt tgggtcaaaga 60
 taaaaactaa gtttgagaga tgaatgcaaa ggaaaaaat attttccaaa gtccatgtga 120
 aattgtctcc catttttttg cttttcgggg gtttcagttt ggggtgtttg tctgtttcca 180
 gagtcagggg caagtgggtt ggggtggagg gagccaggtt ggggtggaag gagtttacag 240
 gaagcaggca gggccaacgt cgaagccgaa ttcttgggtt gnggcgcaa cgtccaaggg 300
 ggccacatcg atgatgggca agcgggaggt cttgttgttt ttgtattcga tcaactgtctt 360
 gccccacgct ccgtgtgact 380

<210> 710
 <211> 526
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(526)
 <223> n is a, c, g, or t

<400> 710
 tgcagggttcg cttaggggca gacggggcaaa cagagccagc atgccggtcg cccggagggtg 60
 ggtttgtcgc aaaacctatg tgaccccgcg gagacccttc gagaagtccc gcctcgacca 120
 agagctgaag ctgatcggcg agtatgggct ccggaacaaa cgtgagggtc ggaggggtcaa 180
 attcaccctg gccaaagatcc gaaaggctgc ccgggagctg ctgacgctgg atgagaaaga 240
 cccgcggcgt ctgttcgaag gtaatgcctt gttgcggcgg gtcgtccgta tcgggggtgct 300
 ggatgagggc angatgaagc tggattacat cctgngcctg aaattgagga tttnttgagg 360
 agacgcctgc agaccangt cttcaagctg ggctgcnc agtccatcca ccagcccgtg 420
 tgctcatccg ccacgccaca tcagggtccga gcaagggggg acatcccgtc ttctcggcgc 480
 ctgactcgca aaacaatcga ctctcctgcc tccctcgcgg ggccgc 526

<210> 711
 <211> 589
 <212> DNA
 <213> Bovine

<400> 711
 gttggattta ttattaaatt ttattatgga tgcacgtaca aaaaaatgaa gaataacgac 60
 acacaacact atggagaata atttaaacia attttctgtg ataataaaac caaagccgcc 120
 actttattta ttgtttgttg tggatgattt tataaggatg gaggggatga ggattctgga 180
 gcggtaatcg agcatgcttg ttttttataa aacaaaatct aacggaggac ctggaattag 240
 attgcaagtc aatatttttg ttctagagtt atcatagcga aagaccatat gaccaaacca 300
 tggatattat tgacttgact aatattgaaa aaatggacca ggaccaacca agaataagaa 360
 atattgcttt acaacaaatg aattcaaaat ttatttggtt tttttttact ttttaatttt 420
 gaagtcgtat gtttttttta aaaaaattca gaatgtacgt ttgcctgttt ctttcttttc 480
 ctttgcattt caaaatttgt gctttcataa agagacttgt tcgaaagctt cttattttgt 540
 tgagtttggt aagtcttatt tgggaacaat gttttgaatg gtaataaaa 589

<210> 712
 <211> 427
 <212> DNA
 <213> Bovine

<400> 712
 gcacgaggcc gaagacgtcc tcgatgtcca gctggcattc ctccgacttc tctccagccg 60
 ggcctctcag aacatcacat atcactgcaa gaatagcatt gcatacatgg atcatgccag 120
 tgggaatgta aagaaagcct tgaagctgat ggggatcaaa tgaaggtgaa ttcaaggctg 180
 aaggaaatag caaattcaca tacacagttc tggaggatgg ttgcacaaaa cacactgggg 240
 aatggggcaa aacagtcttc cagtatcaaa cacgcagggc cgtcagacta cctattgtag 300
 atattgcacc ttagtatcgg gggctctgat caagatttgg tgcggacatt gggcctgttt 360
 gggtttttta taaaaactct tccaagacca caaaaactca cctcctatgt cttttgtttt 420
 atttgtc 427

<210> 713
 <211> 464
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(464)
 <223> n is a, c, g, or t

 <400> 713
 ggtgaattca aggttgaagg aaatattaaa ttcacatata cagttgtgga ggatgggtga 60
 acaaaacaca ctggggaatg ggggaaaaca gtcttccagt atcaaacacg caaggacgac 120
 atactaccta ttgttgatat tgcaccctat gatatatggg ggctgatca agaatttgg 180
 ggggacattg ggctgtttg ctttttatat accaaactct atcctaagtc ccagaaaaag 240
 cttcacactc catatgttgc ttttgttcta atcttgtcag ccaggacaag cgaccaagtt 300
 ccagttattht atttccaaaa ttcttgggaa aaagngcaat ttgaccaaaa agatatttgt 360
 tttgctatta cccaatata gtcagagctt attgtttatt tttttccatt tcaattcaaa 420
 agcctcatgc tgctataata aaaaactcac actctccata cact 464

<210> 714
 <211> 442
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(442)
 <223> n is a, c, g, or t

 <400> 714
 cgcgagtggc atattggttg ctaccttgca ggctgtgca ccttgaacc tgccttagaa 60
 ctttgtgtgc tggacttggg gaggaggaat cctggggctg gatacgttcc ttctaaaaac 120
 ttcccccttc aagtgaaga gcggcatctg gatcattgag gagtgtgagg gcaggtttct 180
 ggctcacagg gacctgccgc acacatacct gagaatcaat cgcttgctcc tgtgccatct 240
 agagaggtgt ggacacctga tgactgtgga gacaccacca gggggaacgt agcattgtta 300
 ctggctgact ccagcaagtc tgcgcatgga gctgctgatg cccctttca ctatcctccg 360
 gtcttcacct tcccacgtat gagatgacta ccctctatat ataaacgnta tgangccacc 420
 tgcctactcc cctccacac ac 442

<210> 715
 <211> 226
 <212> DNA
 <213> Bovine

<400> 715
 ggtgagcgtg tatgggggtg cccagtccca ggagagaggg gacagagaag gacaggcctg 60
 tagtcattag gatgggcctt cgtgctgagt agcaatgtgt ataccatttg ggctatcaga 120
 ggtacccttg ggcaggagcc tccacacacc cccttccttc ttctctctcc atgactcttc 180
 ttcacatcct atcttcttct aagaggggga gggtagggga aaattt 226

<210> 716
 <211> 544
 <212> DNA
 <213> Bovine

<400> 716
 cacggaagac tgggagtctg ttctggggcc agaagatccg ggcaggtgtc cagccaacag 60
 ctgaccgcag actgctctt gtctccgttt ccgcaggcac catgagccag aacaccgagg 120
 tgggcatgaa ggaagtggaa ctgaacgagc tggaacccga gaagcagccg atgaacgcgg 180
 cgtgtggggc ggggatggcc gtggtggtg ggggcggcac cgagaagaat ggtctggtta 240
 agatcaaggc gggcgacgac gagacggacg cagcggccga ggccaagctc acgggcctgt 300
 ctaaagagga actgtgaagg tggggggcag cccgccttg gtacgcacc gctgggcgct 360
 gctgctggtc ttctggttg gtggtgggct gctggcgcg ccgggtcatc atttgacgcg 420
 ccaccctgcg cgagctgcta cagaatgagg gcaaggggccc tctacgcatt gaacctcggc 480
 ctctggcca gagcagcaac tacgacctaa gaaggaggat actaacctg aggaggtttg 540
 gtgg 544

<210> 717
 <211> 324
 <212> DNA
 <213> Bovine

<400> 717
 tcttgaagat cttttttgtg cagttcttct gtgtattctt gccacctctt cttaatatct 60
 tctgcttcta ttaggtccat accatttctg tcctttatcg agcccatctt tgcataaat 120
 gttcccttgg tatctctaatt tttcttgaaa agatctctag tctttcccat tctgttgttt 180
 tcctatatatt ctttgattg atctctgagg aaggctttct tatctcttct tgctattctt 240
 tggaaactctg cattcagatg cttatatctt ttcttttctc ctttgctttt tgcttctctt 300

cttttcacag ctatttgtaa ggcc

324

<210> 718
<211> 387
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(387)
<223> n is a, c, g, or t

<400> 718
gcacgaggaa accgtggtga accgggtcct gccggtgctg ttggtcctgc tgggtgctgtt 60
ggccaagag gtcccagtgg ccacaaaggt attcgagggtg acaagggaga gcctggtgat 120
aagggtccca gaggtcttcc tggcttaaag ggacacaatg ggttgcaagg tctcccgggt 180
cttgctggtc atcatggcga tcaagggtgct cccggtgctg tgggggtcccg ctgggtccag 240
gggccttgcct ggtccttctg gccccgctgg caaagacggc gcatggacac ctnnnngcag 300
tggactgctg gcattcgtgc tctcanggta gccaaagtcct gctggcctcc tgtccccctg 360
cccttctgga ctctgccagg ngggggg 387

<210> 719
<211> 401
<212> DNA
<213> Bovine

<400> 719
gccggtctgg aggaactggg gtcgacctga gttctggggg tgtggtaggc cagggcgggg 60
tgtggcctcc ctccaggcgc catcatgata atataccggg gacctatta gggcatgacg 120
agatggtttc cgacatctac aagatccggg aggtaggggg cggggtgggg gtggaggggg 180
aggggaagat ggtcagtagg acagagggtg acatcgatga ctggctcatt ggtggaaatg 240
cctccgctga aggccccgag ggccaaggta ccgaaagcac agaaatcact ggtgtcgata 300
ttgtgatgaa ccatcacttg caggaaacca gctttacaaa agaagactac actaagtaca 360
tcaaagatta catgaagcct atcaaaggga aacttgaaga c 401

<210> 720
<211> 593
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(593)
<223> n is a, c, g, or t

<400> 720
gcacgagggc tatectaate gcaattggaa ggatgcaggg ctgaagaacg gtgtaccagc 60
tgtgggcctg aagcttaatg acctcatcca acggttgag ctgtgctacc agctcaccac 120
agttggcaag tttgaggagg ctgtggaaaa attccggtcc attttactca gcgtgccact 180
tcttggttga gacaataaac aagagattgc agaggctcag cagcttatca ccatttgccg 240
tgagtacatt gtgggtttgt ccatggagac agaaaggaag aaactgccca aggaaactct 300
agacagcaga gcgcattctgt gagatggcag cctatttcac ccactcaaac ctgcagccag 360
tgccatgatc ctgtgttgcg tacagccctc acctcttctt cagctcaaga ctagnatgc 420
tgccgccttg ctgcgcctg ttggactcgg cccagcggg gggatcacia ccgcaaacct 480
gttgctggag aaaaccaana gccataatca tatacatgac acctgaatt ggctgtcttc 540
gcccttacgg aagcaggaga agacgtaggg gctgtttctg ttagtagatg aga 593

<210> 721
<211> 458
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(458)
<223> n is a, c, g, or t

<400> 721
ttttttttga aagaaacatc gcttttttta ttttttacac agttcaactg ggacacaaga 60
tattctataa aaattcccaa taagagctaa agaaaacctt ttgtgtattt ggttttacat 120
attaattact ctaaaaagtt tctgaactct gtttaatagc aggtctcctt tcttgatagt 180
tntttggtac tgccagtttt tgttgctcag tctgttggtt tccactactt cattcacttt 240
atctattttg cagtgaagcc taccagcacc aataaacctg gagagttcct gatcaatgaa 300
ctccacacca acaccaaag cttatgccat atagaccagg agtaatgaac tgcacgattc 360
cagctggtgg ctgtacgcat gtattggcat ttctctacgt tatatcgata atgagagcaa 420

aagtcatacct ttttctttgc tttccccata tctacact

458

<210> 722
<211> 511
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(511)
<223> n is a, c, g, or t

<400> 722
gcacgagggg ggagaaaagg ggtcagggtc ttctcgtgtc aagcaaattc tgcctcaatt 60
aacttaacta ttgcagcagg gtacccaggc ctttcgggag tccctggact gtctgcctaa 120
ccacatgcag tcagccgctt aacgctacac cagtctcatc ccctctgtcc cccattcaca 180
ggccggggga gtgggggaga cagttggcca ctttctctctg tatattaatt ggcataatat 240
ggtattgtat aggatttttag caattcatga taaatatgtc aggctaggct ttactatttt 300
aatgcttatg gacattgtat atttgtattt taagaccaag tagaccaagt caciaaggctc 360
tctctctagc gtaccataca cccgnggccg gnagaaggct ggaaggctcc accagttctg 420
aaggcagctg ctttctctgtc ctctgtgctg gacggccctg tccactataa ctaaactggc 480
tccgagggta cgcatagnng cttacgtctc a 511

<210> 723
<211> 513
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(513)
<223> n is a, c, g, or t

<400> 723
ggacgaggcg cctgcggagc ggcgtgcccc gcgtgcgggt gctgcaggga ctcggtggac 60
ttctcgttgg ccgacgcat caacaccgag ttcaagaaca cccgcaccaa cgagaagggtg 120
gagctgcagg agctcaatga ccgcttcgcc aactacatcg acaagggtgcg cttcctggag 180
cagcanaaca agatcctgct ggctgagctt gagcagctca agggccaggg caaggcgcgg 240
cctgggggac ctctacgagg aggggaagagc gagagctggg ccggcagggg accaactcac 300
cacgacaaag cccggtcgag ggggaggcga caacctgccg aagacatatg agggtcggga 360
gaagtaggag gagagagctt aaaaaaaga agcgagacat ctgcatcttt taacagatgt 420

gacatggctt ttggccgttt gcctggagga aggggatctt gaaaaaatga cttttataat 480
gataatagaa tcagaactag ccaatcataa caa 513

<210> 724
<211> 466
<212> DNA
<213> Bovine

<400> 724
gcacgagggg actaaggaac atattggact taacaaatgt gctcttagaa cttatgtgta 60
tgtagggggc ttactgtgct ctttctaaat aaaagaaata ttggggctac atgagtagca 120
cttaccatt tctcattctc cagtctcttc gatattgtca gggatagact aaacagaaga 180
cttgtttggt tttatactag ccaaaaatgt tataacctct aaatattcca aaaattatac 240
attaagaata acagaatcag aacataaaat tctaaaataa ctctcaaact gtgtagatta 300
acatcttgat ttatattaaa tcttcaacag aatagagaaa gtaactctga tttacaaggt 360
cccagtattt ttctctttat atgacagttg tacatactca agtgaggata taaaaccaac 420
gaactgtgat ttaggataga ctgggggtat ttgtcagcag cttggg 466

<210> 725
<211> 645
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(645)
<223> n is a, c, g, or t

<400> 725
tttttttcgg cacgaggatg agctgggtag accttatcat cccagatacc ctataagctc 60
ctccttgctt tatggatagc attgctgaag atcaccggct ggagagcccc actactcctc 120
tgctagagga cacagatggt tctcaagaca gccctatatt tatgtatgct cctgagttca 180
ggttcatgcc accacctact tattctgagg gtgatccctc cgtcctgaac acaatgtgca 240
gtgagcatgt ggaagaaaag aagcagttgt acctacctgt ttctcttcat ctctcttctc 300
ggactcttta atttttttaga gactcaacag tctccacagg gggggacagg cccacccac 360
cctctgtctc tccagggggg aggggggaaa caagcaaccc ctggggcccta aggggcgcac 420
ccccctcacc acccaatgat gggatacnaa atttttgtaa tgggttaaaa cacctacaaa 480
aaaactagcc ctcccattct tgattctttt aaagaggatt tcagaatttg ataagggaga 540

aaggaccgga gcggcccccgc gaaggggggat ataaaaaaat gttaaaaaaa cttaccgcgc 600
 cgggggaaca taaaacaaaa agaaaaaaag aaggcaatgg aaaag 645

<210> 726
 <211> 665
 <212> DNA
 <213> Bovine

<400> 726
 gtttgccgcc aggacacagg tgtcgtgaaa accaccgcta aacctaaacc aaaatgggaa 60
 aggagaagac ccacatcaac atcgttgtca ttgggcacgt agattcaggg aagtctacca 120
 cgactggcca tctgatctac aaatgtggcg gggatcgaca agagaacaat tgaaaagatc 180
 gagaaggagg ctgccgagat gggaaagggc tccttcaaat atgcctgggt cttggacaaa 240
 cttaaagctg aacgtgagcg tggatcacc attgatatct ccctgtggaa atttgagacc 300
 agcaagtact atgttaccat cattgatgcc ccaggacaca gagacttcat caaaaaatga 360
 ttacaggcac atcccagctg actgtgctgc ctgatcgttg tgctgggtgtg gtgaatttga 420
 ggcgggatct tcaaaacggg cagacccgcg agctgccctt ttgcttaacc tggggtgaaa 480
 aaataattgt tgcgtacaaa aggattcatg accccctata ccagagaaaa gaaaaatgtt 540
 agaagcagac ctattataaa atgctacacc cgcacaaact ttgccattt gctgatgggc 600
 aaagctaaca agctatatcc ggtagggggg aagacgagga gcagccggac cccgttactc 660
 ggtgt 665

<210> 727
 <211> 576
 <212> DNA
 <213> Bovine

<400> 727
 gcacgagga gctgccgggc cgcccagaa accgctgggt cccctggcaa cccaggagag 60
 ccaaacccta ctcggtgtgt tgcagcgaga gcgggcgcga tgggtgtctaa cccagtgcac 120
 ggctgccct ttctcccagg cacgtccttt aaggacttaa cgaaaacagc atttcataga 180
 agccagactc tgggctacag gaatggctac gcagttgttc gacgtccaac agttgggatt 240
 ggtggggaca ggctcaaggt caaccagctg tcccaggctg atctggatga gctggccagc 300
 aagatcccaa tcctcacgta tggacaggcc aggcaggccc cgctgcagc gtttgttctc 360
 gcacatgtgg ctttcgacaa aaaggggctt aaaattgatg cctattttca gaagatgttt 420

ctatgtcatt tgagaaaatt acaggattcg ccagtgacat ttatattatt aaaaatgaag 480
 ctgccgcata gacctggcgg gaaaaattgg gtacctcagg aagttataaa cccagggctt 540
 ccaatgacgg gggacatacc tgaagactaa acgaaa 576

<210> 728
 <211> 547
 <212> DNA
 <213> Bovine

<400> 728
 tttttttgta ttaaaaagaa aagcataatt accacaaatt acaaacgact aaagcaggac 60
 tagaataatg aatgaatcac ttcagcctga aaagcagata ctctcaataa tattaatggt 120
 ataatacaag ctcatccaag tattttacat ttttttttcc ttgtaaatgt gatatacctag 180
 cacatggtaa agataatgta ctatgagcat aaggtggaac cttctccgca aagccagatg 240
 acaagttttc ctctccagtc agatggggcg atgttctgat cttcttgctt ctaccatcat 300
 gtggctgaag agaggggggg gctggggcaa acctgggacc ctacaccaca aatactgggg 360
 ggcccatcag aaggggaacc aaacacctat taggttttgg aaaaacagcc cccccctact 420
 agtggttttt tgccctcctc cctgcagggc ttgacagtt tttttgaaat aacacagaaa 480
 gggaagagaa taaataacaa acaaatacac ttgaatgggg cctcctggct tgaccagggg 540
 cagcggg 547

<210> 729
 <211> 276
 <212> DNA
 <213> Bovine

<400> 729
 tgctgggccg ggagcggcag cgggtgcagg gggagctgca gtccctgagc cagcggctac 60
 agcaggagtt tgtgcccatg gccggaggcg caggaccagc tacagcagtt ggggaggagt 120
 gtggggctgc gtgacatgag aacttgctcc tggaaaatct ggcccaccga gaaggcttgt 180
 ggaagccgcc tgggcttttt tgttcagatg tgttctgggg gttggggggt tggctggtct 240
 ctgacctggg tgggtcaggg gagtgttggg gacggt 276

<210> 730
 <211> 617
 <212> DNA
 <213> Bovine

<400> 730
 gcacgagggg ccctatggcc agtgcaagct gctgcgcacg cacaactacc tgtacgcggc 60
 ctgcgagtgc aaggccggat ggcggggctg gggctgcacg gacagtgcgg acgcgctcac 120
 ctacgggttc cagctgctgt ccacactact gctctgcctg agcaacctca tgtttttgcc 180
 acccgtggtc ctggccattc ggagccgata tgtgctggaa gcggcagtct ataccttcac 240
 catgtttctt tccacgttct accatgcctg tgaccagcct ggcatgttg ttttctgcat 300
 catggactat gatgtgctgc agttctgtga cttcctgggc tccttatgtc cgggtgggtga 360
 ctgttattgc catggctcgc tttacagcct gtggcaagca agtgctatat tgctggggcg 420
 atgctgctgg catggttctg agcttgacgg atggactctg gacctgttg accgagcttt 480
 ttgtctggga tttggcacag ccggaagaac caaggcgccg cgggctgttc cccccaagg 540
 gcggtggttt ttgctggccg gcagcctcga agaggcatct gcgttgtttg tgagacgaaa 600
 acattaatta acattga 617

<210> 731
 <211> 692
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(692)
 <223> n is a, c, g, or t

<400> 731
 ttccggcacga gggaagaatt tagctgctgc gtatgacaac tttgttgaac ttgtggctaa 60
 tttgaaggag ggcacaaagt tttacaatga gctgactgaa atacttgtca ggttccagaa 120
 caaatgcagt gatatagtgt ttgcacggaa gacagaaagg gatgaactct taaaggactt 180
 gcaacaaagc attgccagag aacctagtgc tccttcaatc ccaacacca cataccagtc 240
 ctctccagct ggggggcacg caccaacgcc accaactcca gcaccaagaa ccatgccgcc 300
 tactaagccc cagccccag cccgacctcc acctcctgtg ctgccagcaa atcgaactcc 360
 tgcttcagct ccggctgcag ctctagctcc agccccggct ccggcaggct ctgggaccac 420
 tgtaccagct ccatcacaga cccccgggtc agtccctctg cctcaggccc aggacccccg 480
 caccacactt ccagggatcc cgggatttgc aatgccatgc cctgggctac atccctagcg 540

gatggcagat atatgcggat ccacaggata caaaacctgg cagctcctac ccgacccac 600
 actctaccct cctcaccccc cacacctatt cccaaaaaaa gcagtaaaaa caatgtatta 660
 aagaaaaaac aaccgcaaag acaccttact tg 692

<210> 732
 <211> 594
 <212> DNA
 <213> Bovine

<400> 732
 gcacgaggat cgtctttaa ccttgcgtgg caatccctga cgcaccgccg tgatgccag 60
 ggaagacagg gcgacctgga agtccaacta cttccttaag atcatccaac ttctggatga 120
 ttatccaaaa tgcttcattg tgggagcaga caacgtgggc tccaagcaga tgcagcagat 180
 ccgcatgtcc ctccgcggga aggctgtggt gctgatgggc aagaacacga tgatgcgcaa 240
 ggccatccga gggcatctgg aaaacaaccc ggctctggag aaactgttgc ctcacatccg 300
 ggggaatggg ggcttcgtgt tcaccaagga ggacctcatg agatcaggac atgctgctgg 360
 ccaacaaggg gcagctgcgg cccggctgtg gcctaggccc ggggaaggca ctgtgccaga 420
 cagacactgg gctggggccg agagaacctc tcttcagctt ttagctaaca caaaaattca 480
 gggcacaatg aatctgatga gggcactgat aagaaggaga aagaagcgca gcgagcagct 540
 gtgactgcga cattccctct cttggctggc ttcacagggt gaaggagaaa aaaa 594

<210> 733
 <211> 628
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(628)
 <223> n is a, c, g, or t

<400> 733
 tttttttttt ttttcaacaa acaacaaata tttattgagc gcctattatg tgccaggcac 60
 tgttctagaa tcccccccaa aaaagaaaaa caagatagat gcagaaaatg caaattctga 120
 gggagaggaa aggggtcggt gaggaagaag gctgagggga ttaaaaagcc taaggtgata 180
 gggacttggc cttaggcctc ctcttcggcc tcctcaccga aatcctcttc ctcttctgcg 240
 gtggcatcct ggtactgctg gtactcggag acgaggtcgt tcatgttgct ctacgcctcg 300
 gtgaactcca tctcgtccat gccctcacct gtgtaccagc tggaggaagg ccttcggggg 360

aacatggccg tgaactgctc cgagatgcgc ttgaacagct cctggatggg gtgctgttgc	420
catgaaggtg actgccattt tataccacgn gggggatgtc gcaacagttg tttgacgtgt	480
ggggtccatt cacgaaaaac tgtgttttat ctgacgtgag cttgctcttt actcctcttg	540
gactcgccca gaaccacagc ccgggagacc gcctgcgggg caaggcgctc tgtcttggtc	600
gaaatgtggg agccagacgg gggccgga	628

<210> 734
 <211> 677
 <212> DNA
 <213> Bovine

<400> 734	
ccgctccgga gctgctgccg ctctgctct cagcgctgca gtggaaggca gggccgcgcc	60
gcgccgctcc tttttgaaat atataaattg gaggccgggc cggcctcggc gcgcccctct	120
gacagcgcg ggcgcgcccc ctcccgccgg cgcgcccgt gccagccccg ggaccttttc	180
atctctttct ttttggcgagg agggagcgag tttagattcg cactccgga ccgaaattg	240
acacactgaa ctccgttttc ttctgctaaa ttatttctgc ttaatagcca ctcgtttttt	300
ttttctgtcc cccctcccct ccctctcggt gcttcaagaa aactttggcg actccctaag	360
tgcaggtttc cctggccggc gtgttttatt tttcatttgg ggaacgagtt ggtttttttt	420
tgaaagaatt tagatagata cttttttttt ggccttgatt tgattgttgc aaagtgtgat	480
taaataaatt tactgtttgt tttgaagtgt gggttttttt tttttttttt tttttaaaat	540
aaatttttta ctttaaatgt tatgtggtgg gcgttttttg tttgccgggg ttactgttct	600
ttcacggttg ctttctgcaa gtgggtgggg gcattgattt attccccca aaatcccccc	660
gggtccgggt tctcaca	677

<210> 735
 <211> 612
 <212> DNA
 <213> Bovine

<400> 735	
ccgctccgga gctgctgccg ctctgctct cagcgctgca gtggaaggca gggccgcgcc	60
gcgccgctcc tttttgaaat atataaaatg gagccggccg gcctcggccg cccctctgac	120
agcgcgcccc gcgcccctcc cgcggcgcg cccgtgccg gccccgggac cttttcatct	180
ctttcctttt gggcgaggga gccgagttca gattcgccac tccgcacccg aaactgacac	240

actgaacttc gtttctctct gctaaattta tttctgccta atagccactc gtcttttttt	300
ttccgcccc ctttccctcc ctttcgctgc tcccagaaaa cttttgccga cttcctcagt	360
gcaggttccc cctgcccgtg gtggatttat atttcacttg ggaacgacgt gggctttttt	420
tttgaaggga ttcaagcaag atcttttttt tttggcattg gctctcgatg gttgcaaagt	480
tggcattaaa aaatattcct gtctggactt gggagtgttg ggtttttttt tttttttttt	540
ttatttaaaa taaaaatttt tttcccttta aaaagccttt tgggggtggg ggttttggtc	600
tgtttggtcg gg	612

<210> 736
 <211> 714
 <212> DNA
 <213> Bovine

<400> 736	
ggcacgaggg agatgttcga gcccggccgc atgcaccgcg tgggggcgct cgcggcccat	60
aactacctgc agaccccagc ggccggcagc tccgcgaggc cgcgcagcgc ttccgcccgt	120
ggcaggccca gcgcccagac tggttcgaac tggagaacct ccgctcagcg gacggccggg	180
acctcccgtc cctggacgag gaggccttcg aggaggagcc gctgcccgaa gagggatcgt	240
ccggcaggag ccgctggtgc gggagcccac ctcccgggac cacctgctgg tgggagctgc	300
tcctcgctgg agaaggaggg ggcgggctgg ggcgggtgga gcccaccc cgggcccggg	360
gcagccggca gcccacgc tcatacatg gtggtccggg gggaaggtcc ctcgggctag	420
gaaggagacc cgtccacagg agtgggagcg ggctggcggg tggcctaag agggaaagag	480
cctgccgctt tgggagccag gaccgggga aaagtccttt ctttcgaggg ggtccgacc	540
ccactgaacc aactcaaat gcacccccg gggacaagg gtgggagcgg aagttttttc	600
agacccccac cccccaaaa aaaaaaagag gggggggggg aggggggggt cccggcgga	660
acgcaccct ggtttttata taaaaccct gccgggcctg ggctcccccc ccct	714

<210> 737
 <211> 682
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(682)
 <223> n is a, c, g, or t

<400> 737
 gcacgagggg tagaaaaaga atacatgatt ctagagttgc tggttttaac cctgcactac 60
 agttaatcct gacgaggaca gacaaaacct taaacaaaaa acttggccaa agcaaataac 120
 ttcttaaaca gtcaagatct tggagactct agaggatttt tgtactagta gcccaaggaa 180
 gatggaaaaa tgactccttt ttaaactctga ttcagactgt cactgctttg ggaaactgct 240
 aaattgttgg atctgcttcc agggctctatg catctcttgt tcagcatgaa ttttaattagt 300
 agtccaagcc agactgttcc tctggaacct gactaatcca tatttcctat gttttggaat 360
 tagcttgctc ctctaaaaa tctccacagc ctaatattga tgttattatg acaggggaagc 420
 ctgaggagaa gcctatactg tgtggacttt aattatatcc tagaataact tttggggaaa 480
 gctcncgtga gctgattcta gattatccag aaaacaatta actttaataa aactatttgt 540
 ctaatcccct ctattatata aggatactat ttaatattag atattattat taaaaacatc 600
 tatgggtttt gttatctagg ggttgatttt acgtccgcaa aaaccataaa gcaaccatca 660
 taaaaaagca aagccttata tg 682

<210> 738
 <211> 649
 <212> DNA
 <213> Bovine

<400> 738
 gcacgagggc cgaacgcaac gagcttcgca ggaggcgggtg ggagcgacgg cgggggggctg 60
 agctttgggg cgaccccgtt tccctcctcc caatcgcttc gcttcccttc cccgcgggca 120
 gcatgaaagc cttcagtcca gggaggtgcg ttaggaaaaa cagcctttcg gaccacggcc 180
 tgggcatctc ccggagcgaa accccggggg acgacccgat gaggctgctg tgcaacatga 240
 acgactggta ctccaagctc aaggagcggg ggcccaacat accgcaaaaa agaaggagag 300
 caagaggaaa tgctggagga cgagatcgac tacatcttgg acttgagatc gcgctggact 360
 cgcaaccccc attcgtttagc cgggccacca acgacccgac agaccggcgt ccaggacgcg 420
 ctaccaactc aacacgacat agatctggcc tgcagaaaac cctcccccg cgagccggga 480

agcggagcag gcgagggcct aggctcatta aaaagataaa ttttatactt ctgtttgttt 540
taaaaaaaaa atgtgggaag aaggggggaa tgtaataata aaaaagccca acgattaata 600
aaggggggga atgggaaaaa aattttttta agttttcttt ggggagggg 649

<210> 739
<211> 653
<212> DNA
<213> Bovine

<400> 739
gcccgagggc cagttttctca gtgaacatgc aggaagttca aacgccttct ctagtggaga 60
gcataccaat tactattttg atgtttctca tgaacaccta gaaggtgcgc tagacagatt 120
tgcacagttt ttctgtgccc ccttggttga tgagagctgc aaagacagag aggtgaatgc 180
agttgattca taacatgaga tgaatgtgat gaacgatgcc tggagactct ttcagctgga 240
aaaagctaca gggaatccca aacatccctt cagtatatat ggaacaggta acaaataac 300
tctagagact agaccgaacc aagaagcatt ggatgtagac aagagctcct gaattccatt 360
ctatttatat tcatcgaact tatgggtatt gtgttttttag ccgagatctt tgatgatttg 420
ctatctggtg ggaaggtatt tgtgaagaga gacaaaatgc cccgtgccga tttccgacat 480
ctttccaaga aatcttaaca ctttcaaaat acccattagt tttagatctt tggacatccc 540
tcctgctccc aaacacaaca acccgccctt ccgctccttg gcagaggccg agcgtttaac 600
ttataaagcg ggaatttttg gggaaggagg acgggggtgt ttttttttgg ggt 653

<210> 740
<211> 579
<212> DNA
<213> Bovine

<400> 740
gcacgaggac attcatgtct acttagttcc ttttctccac ccagtaccaa tcactttaat 60
tttccaagtt gtattagctt ccaggcacct gcatttcaag gtagcatgct ttgctggctc 120
cctactcccc gctccatctg caagaatagg tctggtacac tgtgagtcct tctaaactcc 180
atgatgaatc acagatactg ccatattcat gacattgtaa atggccaccc ctagtcacca 240
tgtcaatgac ctctttgtca agctttccct ggtcttgctg accatttcag ctctatttta 300
gatacagtgt cccagtcctg tcctccagcc aggaacaccc caaagcccac tggttaaatc 360
tctgcgtgct ctcgaaacct tacattgtat tcaattttcc attgcatcat tgtctataca 420

tatcaatatc atgaaatcaa tcctgcttat aaagaaccat ctttacataa cagatatataa	480
ttaaccttca gattatactg actaaacaga aaaatcctgt cagcctctta ttcattgatc	540
ttacgggata cctgtgtttt cattcttata ctacgcttt	579

<210> 741
 <211> 607
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(607)
 <223> n is a, c, g, or t

<400> 741	
gcacgaggtt gcggcccacc tgggtgtactg gggcaaggcc atcatcatct acccgctgtg	60
tgaaaacaac gtctacatgc tgtctcccaa cgccagcgtg tgtctgtatt ccccgctcgc	120
cgagcagttc tcacgccagt ttccatctca cgacctgcca tctgtccttg ccaagttctc	180
cttgccctgtc tccttgtcag aattcaggaa ccccttgcc cccctgttc aggagacgca	240
gctcatccag atgggtggtgt ggatgctgca gcgcgggctc ctgggtgcagc tgcacaccta	300
cgtctgcctg atggcctcgc ccagcgagga cgagccccgc gcccgcgagg acgacgcgcc	360
cctcgccacc aggggtgggcg gccgcagcct cagcacaccc aagccctcag cnttggtcc	420
ccaccagcag cgatgacatg accctaccag cccagcatg gacaactcag cgctgactgc	480
tccccagcgg gactcggcgc tgacaggaga tgacggagac ctgctgcca cctgtccgac	540
acgacngccc gcatctcacg gcctcggcca naacccgaga ccccgatgct gcagctctgc	600
ctattcc	607

<210> 742
 <211> 616
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(616)
 <223> n is a, c, g, or t

<400> 742	
gtaatcttca cattcatttt agcaggtact gagtgatgct gtatatataa ataagtgtat	60
tgtttgattt ttagaccacc acatgacatg cttgactatt atttcaaatg tctgttaatg	120
caaagtaggc tactccataa tagtggttaag aacaaaactt actaaciaag tgatataaag	180

acttaaatta acacattatg tggagcccta tctttacaaa agttttctac tgtaaaatgc 240
 ttttactttt atttgcagtt ttcatttgat agtattcaac cataattaaa gttgcataag 300
 ataattgctt cacatttcac atacctatat ttatctgagt gctgtctaaa actgttgtgc 360
 tagccaaagt aaggctatga aatcatttgc agactaaccg cgagtttgtg ttaaagcact 420
 gttattgccca tngagagaggc attgactttg taccacatca tgttcaacca tttatacatt 480
 cagggccttt tttaaaaaag aaaagaaaac aaaacaacaa atagaagagc attattgaca 540
 aaactttttt ttctaacctg caaaaactaa tttctgccta acgcccttac ccgacaccac 600
 cttgaaaatg catgaa 616

<210> 743
 <211> 715
 <212> DNA
 <213> Bovine

<400> 743
 tgcttggttg gagaagcagg tacttatagg gacgacgcaa ggtgccggat gtgaagaaaa 60
 gcgggggctt ggagactcgg acccgaggtg tgaacagat tcattctttg ccttgaggat 120
 cttatcttcc tgtgtgcatt ctctgacgat tcgttaccta cctggagtgt ctttgactgt 180
 gggcatcccc cggtgttttt taagccactt aagctgctcc catgcttggt tgacgtctgc 240
 tttgtcgagt gtccatgatg ttgggccctg agggaggtga aggctttgtg gtcaagctcc 300
 gtggcctgcc ctggctctgc tctgttgagg atgtgcagat ttcctttcga ttcacgatcc 360
 atgacggggg tgggggtggt tctttattta cactagaaaa ggaggagag ggggaggctt 420
 ttgtggtctt gattagaaat gactatattg gcccttaaaa aacaggaagc tggacatcgt 480
 tcttgaatgt gaagcccaaa atcgaatgtt ggggttttagc aagggccaaa gggatatctgc 540
 ctgaggtttg gcgttcgggt tccgtggtgc cccggaatta tttttttttt gggggaatgg 600
 cctggttctt tcggggcccg gccattcggg agcttggttt gtcttcgatt ttaaggtttg 660
 aaacaggata tggctcttgg gttaggtcga ttttttttgt cccctttttt ttttc 715

<210> 744
 <211> 606
 <212> DNA
 <213> Bovine

<400> 744
 ttctcaacca accataaaga tattggtacc ctttatctac tatttggtgc ttgggccggt 60

atagtaggaa cagctctaag ccttctaatt cgcgctgaat taggccaacc cggaactctg	120
ctcgagagcg accaaatcta caacgtagtt gtaaccgcac acgcatttgt aataatcttc	180
ttcatagtaa taccaatcat aattggagga ttcggtaact gacttggtcc cctaataatt	240
ggtgctcccg atatagcatt tccccgaata aataatataa gcttctgact cctccctccc	300
tcattcctac tactcctcgc atcctctata gttgaagctg gggcaggaac aggctgaacc	360
gtgtaccctc ccttagcagg caacctagcc catgcaggag cttcagtaga tctaaccatt	420
tctctttaca cttagcagga gttcctcatt tttagagcca tcacctcatt acacaatatc	480
aactaagccc ccgcatgcca catacaaacc ctcgttgtat gacgaatatt acgccgccta	540
tatacccgct cctgatacag ccgtccaagc tatacagacg accaaaacac tttcgaccgc	600
agagag	606

<210> 745
 <211> 703
 <212> DNA
 <213> Bovine

<400> 745	
gcacgaggct cccaaggagc gggcagccat gcttgtatTT ttatggttag aaaggcacia	60
aattatcaac taagacattc cttctttctc tttttttcct gaacatcatg gagttttcca	120
gttgtctctt ttggactgta gtttttagtg ttttaaacaa acactttaca atgtaaacta	180
tttatttttt acttattctg ggggatctgt ctgaaagact attcatggaa caggaagaag	240
cgtaaggact atccatatca tctttgctac aagtcattat gactgtaaga ttgtaaatac	300
agattatttta ttaactctgt tctacctgga atctagtttc ataggaaagt gtttgagagc	360
aggtaagttg agatcgatca gcaaattctt cacaggaatg gcacaaggaa accagcatag	420
caagctgctc ttaccctgtg ctgactgga tgatttgat tcttttttct tttttttccc	480
aatggattac tggttgccct tgcagtgttt tagttgcaag aaagcaaagc cttatactgc	540
tatccatcct gtgctatttc aggagaagaa acactattta ttttttctt tcaaaaaaaaa	600
agaaagagac tgttacaaat tccttttgtg ggacgaaaaa attgataaaa aaaatagggt	660
acaattaatc ggaacaaaaa aaaaaaacg ggggcccccc tcc	703

<210> 746
 <211> 594
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(594)
 <223> n is a, c, g, or t

<400> 746
 cgaatggtgt gtacacttgc actttcatcc cagcagaggg accatagctt tcatgatgtt 60
 ctttaagaca gctgcgcccc acagctgccca ggtcagggca gaatgagtac ccaggaggaa 120
 gggcctgcgt gtgacctca ggcacccac ccacctcc tggccagcc cccccact 180
 ggctttaaca agtgaaagtg aaagtcgtc agtcatgtcc aactctttgc gacccacgg 240
 actgtccagt ccatggaatt ctccaggcca gaatgccga gtgggtaacc gttcccttct 300
 ccaggggatc ttcccaaccc agggattgaa ccagggtctc tgcattgcag gcatattctt 360
 taccagctga gccaccaggg aagcccagct ttaacaatt agtttcacca aaacctttag 420
 ctccaggagg cggcttctgt tttgngctg tgcagcgacc ctctgggtc ctgacangga 480
 cggacgtcca cgggctgatt gacaggtcac tgcaggcttc agaaccgtca ccaaagccc 540
 aagacctgaa agagttgggc tgattggggc tcccaacgg ggatggccta ccgc 594

<210> 747
 <211> 650
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(650)
 <223> n is a, c, g, or t

<400> 747
 gcacgaggct tttttttttt ttggttaagg tgaatgcact tttggttttt ggtcatgttc 60
 agttggtcaa agataaaaac taagtttgag agatgaatgc aaaggaaaaa aatattttcc 120
 aaagtccatg tgaaattgtc tcccattttt tggcttttcg ggggtttcag tttgggttgt 180
 ttgtctgttt ccagagtcag gggcaagtgg gttgggtggg agggagccag gttggggtgg 240
 aaggagttaa caggaagcag gcagggccaa cgtcgaagcc gaattcctgg tctggggcgc 300
 caacgtccaa gggggccaca tcgatgatgg gcaagcggga ggtcttggtg gttttgtatt 360
 tcgatcactg tcttgcccca gctccggggg gactcgtgca gccatcgtag tgacgctgta 420

ggtgagcggc tgtgccctcg cccgatctcg atctcgttgg agccctggag agcaggcctc 480
 ttgaggtgca gttgctggtc tgtagccagc tttttgcagg tagggagttt gggagctcgn 540
 ggaacagcgc agaagcagtg gagcaatcga gatcgacccg gcgctaccga cgatcgcgca 600
 gctcgcgaca accgcttttt tggtttttgt accattttgc ccccgcgggg 650

<210> 748
 <211> 597
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(597)
 <223> n is a, c, g, or t

<400> 748
 gcacgaggct ctctgtgaag gactgactac ctggaccgat cgccctgacag atcccacctg 60
 cctgcccact gccatgactg agcccagccc cagcccggtc cattgcccag cattctctgt 120
 ctctcgctcg gtctgttcca ccaccttcag ggtcttgctt tgtccactcg tgtgtgacct 180
 ttagtctcta ggctttacca gaagcagtct gggttcagcc agtcagtgac tggcggggtt 240
 gaatctgcac ttgtccccac catctgggga ctcccctttc cccgtgttgt ccaggactcc 300
 ccatgtgtca gtgctctgcc ctccacctgc ccaagactca ccccccttcc cctctgcagg 360
 ccgacggcag gaggacagtc ggggtgatgg gtattctgcc ctgcgcatcc caccgagga 420
 ctgaggggaac cttgnnnngg gaccctgnng ctgggggtgcc ctctgatct cctcgccctg 480
 tattttcttc atctncagnt ctggacaggc agngggccag aaaaggnacc tanttaccat 540
 tgcgnggaga tgagtcatgg aggtcaaggg agacgactct gatttccaga cccctc 597

<210> 749
 <211> 618
 <212> DNA
 <213> Bovine

<400> 749
 tcgagttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 ttttttttta ggagcccat caatagaaaa aaacataaag gaaaaggcaa actacgacta 120
 cgaaagggca gaatcaggca ggggcttcaa agccgaaggg gggggtaaaa ataaaaagaa 180
 attttaatgg ggggaagaag cagacaatta agaaggggga cccaaggggg acgggggggc 240
 cggggaagcc gggggctaca aaaaaagggg agccgaaaac cccggcggag ataggaaaag 300

gggcttcata gtatTTTgag gctgggagga gtgggaagga aaccctaag ggatggggaa 360
 aaaaggggct ggaatatagc tttcgggtccc cttctattaa acatgagggg cccaggaaaa 420
 aaaactccgg agccaaagga cagagggggg ggcaggggga cttcaggggg ggagggggga 480
 agcccggggg gggcaacccc gctagtcggg gggggggggg ctggggggaa aaacaaaaa 540
 accggaaaaa aaacctggga aaaaaaaat attcaaaagg ggctttgggc acgggggggg 600
 gcctggaggg cttctggt 618

<210> 750
 <211> 96
 <212> DNA
 <213> Bovine

<400> 750
 tattcggcac gaggggaaaa agtcatgtga taaatactcc ttttgttcta taaccaagcc 60
 ccaaccaagg acaaattatg atatatactg cagggg 96

<210> 751
 <211> 482
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(482)
 <223> n is a, c, g, or t

<400> 751
 cgctctcaag gggcgggagg ggctccactt ggggtgctct agagcgggtgc ccgaaagtgt 60
 gcacagtctc gtctgtgtgc gtgtggataa tatcctgtgt catagaaatc tggcttcata 120
 aaaccataga ataagtttct ggtatgaang gtcccttctc ttgtagctct tcacttgacg 180
 ccacaagacc ataccgaagt gggagttcgc tgatcgaaaa agcaccttct tggtagaacc 240
 cgggaaggaa caccacgctc gcctgagggc cctgaagggt ctctctata aagcgctcac 300
 agacttggtg tgcaccctg aaatgaacca agaattgtgc gacttgaacg gggaggtgtg 360
 gagggccggg ttgacttcag atttctctgc tgccgtgttc ttctggaggg cgacccttct 420
 caaacctcag aacgacacac aaggggaggc ctgcgaagaa cgctgcggaa tgaagcatct 480
 ct 482

<210> 752
 <211> 560
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(560)
 <223> n is a, c, g, or t

<400> 752
 gcacgaggat acaacagctt ccagatgcac ttggacagcc aacagttttt gaatgacctc 60
 agaaatgata ttgagaagaa aataggattt gatgctatta tgcgggttcg caccagcaca 120
 ggtttcagag ccaactgactt ctttgggggc atttatatga acaacaccac cgacgtagag 180
 atggcagcaa tcgactgtga caaggccgtg accgtggagt tcaagcatga tgacaagctc 240
 agtgaagaca ctggagcctt gattcagtgt gccgtgctct acacaactgt cagcggtcag 300
 agacgacttc ggattcacia cctgggcttg aactgcagct tccaagtgcg ggatctgtat 360
 aagagctgcg agacagatgc cctcatcact ttttttgcaa ggcagcttta aaggcgtttt 420
 taccaacctt gaagtcattg ggaaattttg gttaccagac tgnccatgt tggctgttac 480
 ggagactggc tagccctcgc accgccagtg atttgcgatt cataagtctg cgngtactga 540
 ctgttgtag actggtgtgt 560

<210> 753
 <211> 548
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(548)
 <223> n is a, c, g, or t

<400> 753
 ttcagacagc tggtgccgaa gtttcaggaa catcctcctc tctccaatca tggcttgtgg 60
 tctggtcgcc agcaaccctg aatctcaaac ctggggagtg cctcagagtg cggggcgagg 120
 tggccgcaga cgccaagagc ttcttgctga acctgggcaa agacgacaac aacctgtgcc 180
 tccacttcaa ccctcgtttc aacgcgcatg gggacgtcaa caccatcgtg tgtaacagca 240
 aggacgctgg ggcctggggg gccgagcaaa gggaatctgc cttccccttc cagctggaag 300
 tgtcgtggag gtatgcatcc tcttaaccag acgnacctaa ccatcaagct gcctgaggat 360
 acgaattcag ttccccaacc gcctcacctg gagccatcac tacctgctgc angtgnggac 420

tcagatcnga ggggtggctt tgaggactat ggccagcagc cctggcccca taaggagtgc	480
ctggctcccc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa actgaggggc ccggacccat	540
cccttaag	548

<210> 754
 <211> 508
 <212> DNA
 <213> Bovine

<400> 754	
tggaatacac agctggggcg gtgatggcgt gcactaacgg ttgtttgtcc tacccttttg	60
ggccaaggga gggacgcagc cccgtcaagt atccgcccgc tttcagcctt actgcctttt	120
atgccacgga gccccgaag ggccgaaagc cggagggccg cggccctggg cccccggca	180
ccctgtgcag caggcttgcc tgagcccggg ttgggctggc ggcttctttc tctgtgggct	240
cccgggtcccg gtcgggtttt tcaggccgca cctaccggcg gaggaggat gggggacttt	300
gggtggccct ttttcagtg acgaggtagc tgacgatggc gtatgccata tgtggaagga	360
tgaacatctt tccgaattta cattaaaaga ttaaaaggat tgggtggagg gattcagcgc	420
cccctcatgt cccaggaag tgccccatat acatgggggc accccaacgg gaatctgggg	480
atggctggaa ccgggccccg gtgctggg	508

<210> 755
 <211> 606
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(606)
 <223> n is a, c, g, or t

<400> 755	
gcacgagggt ttaaaagacc gagtccagta tgggggggga agtgagaggc aatggagaaa	60
agccagagggt caggaagaca gctcacgagg agggaggaga ggtctgcctg agctctgcag	120
attcctggag cagggggaat ggagaggcag ccaggggacc cttataaac aaaagatggc	180
caacactggg caacaccact ggaagggaaa gccccgggga acactcatct tcactttcaa	240
aacatgggta gaagaccatt gtgaaagata ttaagaagaa ccgctcaatc aaggacatta	300
ctaataattac catgtagatg aataaaaaa aactgaacag atctaattga gatccttggc	360
ctggccttga agagatgggt ttaaattccg ggacaccatt cctcctgnac ccatactctc	420

cagttaggtt agctgaaagg aaaaatgcct ctcctagaag ggaggcataa cacaacctgg	480
cgggcagcag aatttccttg aaaaaaatt acattgctgt gctaaaaatc acttctttgt	540
tgttctctcc agcccccccg ccacgccgtt taaggggaga aaaatgaaaa acaaaaatta	600
gccttt	606

<210> 756
 <211> 388
 <212> DNA
 <213> Bovine

<400> 756	
attccttagt cttctcattt cttgaatcat tttcattctt cctcagcact gcagcatcct	60
ttgcagcatt cattaagggg tttcctttta atacaacaga aagaaaaaaaa aattcaaaca	120
aaaattgagt tctttcaaaa tgaactaagt acagctcatt atagcttccc tccagttggt	180
tgggggaaat tgactccagg tattttataaa acaacaccca tggaagcaaa aaaagctgaa	240
gcttgagaga acctgataag ggagaagtta caaaagttat cagaacagct tttggccttt	300
tgcacctggg aaattaaaga gcaatccagg ggggttggga gagggctgga tgggacaagg	360
gccccacctg gggggcactg gccagggg	388

<210> 757
 <211> 397
 <212> DNA
 <213> Bovine

<400> 757	
gcacgagggg ggagttcgtc tccgcacgcg tgaccgcgct gggatggatt cctcctcgtc	60
ttcctccgcg gcgggggttg ggctcggtag acccgagct gcagcatttc attgaggtgg	120
agactcaaaa acaacgcttt cagcagctgg tgcaccaa at gacggaactt tggtgggaaa	180
agggcatgga caagcctggg ccaaaagtgg acaggcgggc tgagagcctg gtttgtgaac	240
tgcggtgaac gcttcattga caccaaccaa atcattttga atcgacggaa caaaaccaca	300
aatccaacca agcctctcaa aaagctttct gactgactca cattatcttt ttgtaaagaa	360
ggagatcaag aaatgaaagc agtgatgggg agtgtag	397

<210> 758
 <211> 401
 <212> DNA
 <213> Bovine

<400> 758
 cacgaggcag gctctaaccc cctcacattc ctggcgaacc ctccatactg ccccggcac 60
 tttgccctgc ctgcctgccc tgccctgtcc acttgggggt ttgctccagt atcctatgtt 120
 gggctcttgg gatcttttct tttttccctt tgtccttggg ccgggaaggt ccccttgggc 180
 atgtcccctt caaccaggtt aagctcttgg ccttgatgga tgactagaag gtggtgtgga 240
 tagaaaaccc gtggtccgat ggggggccgt ggttaccctg tgggtatgca tatccccggt 300
 ccagtgggtt agtttagtag atatttcgaa tgatgtgttc tagatgcaaa ccgtacacaa 360
 ggaggggtgc tgggcacgaa ataccccctg ccaaatccca c 401

<210> 759
 <211> 610
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(610)
 <223> n is a, c, g, or t

<400> 759
 cacggggggc cgtaaataat ggtcccccg ctgagaattc gccgagcaaa gccacaggtc 60
 taccttgccc ccagtcctca cagccgctct acccaagggc cccagtttgg gggcatcaca 120
 gctgtcaccg cgaaccagag cctgctgagc cccctcaagc tggaggtgga tcccaacatc 180
 caggccggcc gcaccagga gaaggagcag atcaagaccc tcaacaacaa atttgctcc 240
 ttcacgcaca aggtgcggca cctggagcag cagaacaagg gtctggagac caaatggaac 300
 ctctgcagc aacagaaaact gcccgagca cataaacaac atgtttgaga gctacattaa 360
 caactccggc ggcagctgga actttggcca gaaaaactga actggaagtg aagctggcac 420
 atgcagggcg gggaggactt cagacaaaat gagataaac aaaacgccag aatgagatga 480
 tttgtatatc aaaagatggg tgaactaatg acaggaaaat gagtcgcctg aggcgatgag 540
 aataaatctc agcacggtga aagaatcgaa agaataatt ttaactcggc cgtctgacaa 600
 cccaccgact 610

<210> 760
 <211> 533
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(533)
 <223> n is a, c, g, or t

<400> 760
 gcacgaggca ggacgtcacc ttgcacgact tggacgtggc caacgcacgg ccccgagggg 60
 gacaagacat cctgtctatg atgggccagc tcatgaagcc caagaagacg gagatcacag 120
 ataaactgcg gggggagatc aacaagggtg tgaacaagta catcgaccag ggcgtggccg 180
 agctggtccc gggcgtgctg ttcgtggacg aggtccacat gctggacatc gagtgttca 240
 cctacctgca ccgcgcgctc gagtctcca tcgcgccat cgtcatcttc gcgtccaacc 300
 gcagcactgc gtcacaggg cagcaggacg tcacctctcc tcacgcatcc tctcgacctc 360
 tgaccgagga tgatcatccg gacctgctgt acaccgcag agataaaca atataaaatt 420
 cgagccanac aagggatcac atcaggagaa gcgctgacca ctgggagatg gaacaaacca 480
 ctgagtaccg gcaactgctgc ccgccactgt ggcagatacg gaagaggatg aga 533

<210> 761
 <211> 543
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(543)
 <223> n is a, c, g, or t

<400> 761
 gcacgagggg aaggagatt gctttctcct actgcatctg ttaatccttt atccagaagt 60
 cccctgaaa cttcttcaca gatgactcct aatccattac ttttaagtcc taccacagaa 120
 ctaatggaag aaatttctga atctgttgga aagaatcaat ttacttctga aagtacacat 180
 ttgaacattg gtcataggtc tatgggtcat agcatgaata ttgaatgtaa agggattgat 240
 aaagagctaa atgattctaa aactacacat atagatattt caagaataaa ctcttctctg 300
 ggaaaaagcc aagtttgact tctgaatcca gtattcatac aattaccctc tcagttgtta 360
 acttcactag tttattttat aacaagccct ttctgaanct tgggtgcagta tctgcatctg 420
 acaacactgc cagttgctga naggctagca ctacttcgag tccaaccctc anaaaaaaaa 480

aaaaaacgga cgcagccact caccgggccc gctgtcctgc tcgccagact tctacactat 540
gnc 543

<210> 762
<211> 190
<212> DNA
<213> Bovine

<400> 762
gcacgaggcc caagtgcagg agaagcagca cccagtgtccc ccaccgactc aaaaccaaaa 60
ccaggtgctc cccgtgtggg gcccggggg cctctgacac tgaaagaggt ggaggagctg 120
gagcagctga cgcagaagct gatgcaggac atggagcatc ctcagaagca gagtgtgtccc 180
atcaacgagt 190

<210> 763
<211> 662
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(662)
<223> n is a, c, g, or t

<400> 763
gcacgaggcc caagtgcagg agaagcagca cccagtgtccc ccaccgactc aaaaccaaaa 60
ccaggtgctc cccgtgtggc cccgggcctc tgacactgta agaggtggag gagctggagc 120
agctgacgca gaagctgatg caggacatgg agcatcctca gaagcagagt gtgcccacatca 180
acgagtcctg tggccggtgt catcagcccc tggcacgttc gcagcccgcg ggtcgcgctc 240
tggggcagct cttccacatc acctgcttca cctgccgcca gtgtgagcag cagctccaag 300
gccagcagtt ctacagcctg gaggggggct ccgtactgtg agggctgcta caccgacacc 360
ctggagagtg cagcacctgt gggcagccga tcaactgaccg catgctgagg gccacaggca 420
gncctaccac ccgcatgctt cacctgtgtg tctgcgcctg cccctggagg cacctcttat 480
tgtggacaag ccaccgcccga ctggccccga ctacacagca tccccccaa agcttgggagc 540
cggaccatat gcgacctgcc gcgggagacg cgcggggctt gacagactcc ataaggtaag 600
ggcagacggg gagccttcat gaggagaacg cgttcctggt gcccggtggg gagccacccg 660
ac 662

<210> 764
 <211> 61
 <212> DNA
 <213> Bovine

<400> 764
 gcacgaggca actgtcagag aaacatgatg ggggtgaaggt ggggtgctttt ttataaatcg 60
 t 61

<210> 765
 <211> 692
 <212> DNA
 <213> Bovine

<400> 765
 gcacgaggac caccacacag cccctccttt ctgatggctc tcaactctcc atcccacaga 60
 ctacacctc tgagacctgc aaaagaagct cgcggggttca gtcccccagg gggggaccag 120
 ggttggtgggg gggaccgttg gatatgttgg aagcgggtact cgtaccggct tcacattttg 180
 ttgtcaacaa ttactgtat tttttttttt tttttacttt ttctgtacca gttttgctat 240
 aatttatcag aaggtccaaa aagttcgaca taactatttc agtttgcatt atttatttat 300
 gatgcttttg tcattgtttt tttatacatt tgggattata aattatgtaa atgttaaaat 360
 gagcatctca aagaagtctg tttaatcatg gccgggggtgg gggaaaaaat aaaaaacagt 420
 tttattttta aaaaggggga ccccagtttt aatgatcaaa gttataaatc agaaatcctg 480
 taaccacttc ctaaaaaaaaa ggaccacaaa taaccgattt ttttattact ccttgcccaa 540
 ggggctctat gcgacacctt tttttaaaag gcgctctttt ttaacaactc tgttcgcttg 600
 ccccgggacc acaggttctt cgggtctacca aaatattaat tttttccaaa acaaccctt 660
 gtttttgacc ttacctattc tttttgctgc ca 692

<210> 766
 <211> 630
 <212> DNA
 <213> Bovine

<400> 766
 tggctccgcc acgagctctg ggaccgggt ctgtggccgg cccctcgctg gccctgtctc 60
 ccagcgacgg gcagctactg ggccggggat tctgagcttt gcctgctctc tttgcacgtg 120
 acatgatgtc cccctccac agctcctgga ggaccggcct gctgctgctg ctgctcttct 180
 ctgtggcagt cagagaatct tggcagacag aagagaaaac atgcgacctg gtgggagaaa 240
 agggtaaaga atcagagaaa gagttggctc tcctgaagag gctgacaccg ctatttaaca 300

aaagctttga gagcaccgta ggccagagcc cagacatgta cagctatgtg ttccgggtgt 360
 gccgagaagc tggcaaccac tcctctgggg caggcctggt gcagatcaac aaaagtacgg 420
 gaagagacgg tagttgggaa attcacgaaa ctaaattctca tggaggaatg gatcagctga 480
 ctataaaggg ggatgaatag acaacacgtg gcaggagcac gggggcaggg gagatctccg 540
 caccgaccacc tacgacaatt taccggttga gacgaccaa ccaaattgtt acctttaaga 600
 agcgccgggg gcccaaacc ccctaggggt 630

<210> 767
 <211> 516
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(516)
 <223> n is a, c, g, or t

<400> 767
 tttttatatt agttttgtaa tccctacatt ggaaagcttt ccaaattcta cttgcattta 60
 aataaaactg ttgcagtttt tactatttat tttgtttccc atggtttaag aaaataactg 120
 cacagtttca aaggcatgga aaattatata agcctttatg tactctgttc ccaaatggc 180
 agggctctaga gaagagcaga attccagctt tagaaaacat tctaagattt cacgcatgca 240
 gttntgacat atctgaaaat aagacttttg tatatttggt gtggaggngg ntggggaaac 300
 ttttacaaaa tgntnnattt ttgtcagtct gtgggcattt cacatatttt tattgcatta 360
 gatttggtat tatgtgcaca ttatatatta ttacttcttg tttgatttgt gattccctat 420
 acttgatttt ttagtaactt ttttataaag aactgctctt tttttttaat tgattgcgct 480
 cagatgagcc cgagtcaaaa gcaacatcaa tgacat 516

<210> 768
 <211> 436
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(436)
 <223> n is a, c, g, or t

<400> 768
 gcacgaggct taaacagaag acgggcccag gcattgttga actgtctcgt gccctctcct 60

tggatcttgg atcttggttt cctcggtagg agtttctgtc ccagaggcat tcaggtgcat	120
tttttttttc tcttcccgtg aaggagggtc caaacctatt ctgggtttttt tcttaccttg	180
ttgtcattgt atctctcctt tcctttgttc tcttttatgt tttttttttt cttttctttt	240
tttggttggt tgtttttctc catcagtggg gactgattgt tccccttgcc ggccaaattt	300
tgttccttcc cctgtttttg ccaaatccta gggngnaaa atcctcgtat gccaaaaata	360
tatgctgagc ataagtcatt ccacgtgggt tgtccatcgc agccgagaag ctgcagnggg	420
ggcagggagn nggcgc	436

<210> 769
 <211> 421
 <212> DNA
 <213> Bovine

<400> 769	
gcacgagggc gtggtccacg ccgagcgata gagacgcctc ggccgtgtct tcaggatgac	60
ggagtgggaa acagctgcac ctgcagtagc tgtagacccc cgacattaag ctttttgga	120
agtggagcac cgatgacgtg cagatcaatg acatttctct gcaggattac attgctgtca	180
agtataagta tgccaagtac ctacccaca gcgcgggccc ctatgcggtc aatcgctttc	240
gtaaggcaca gtgccccatt gtggagggcc tcaccaactc catgttggtg cttggccgga	300
acattgtcta gaagcttcat gaccgtgcgc atcgtctagc tcgccttttt tatcttccat	360
tttcttactt gtctgatctc cctttgttcc tgttgatcgt ctttcttaac tggtgccccg	420
t	421

<210> 770
 <211> 414
 <212> DNA
 <213> Bovine

<400> 770	
cgccaggaca caggtgtcgt gaaaaccacc gttaaacta aacaaaaatg ggaaaggaga	60
agaccacat caacatcggt gtcattgggg cacgtagatt caggggaaag tctaccacga	120
ctggccatct gatctacaaa tgtggcgggg atcgacaaga gaacaattga aaaggtcgag	180
aaagaggctg ccgagatggg aaagggctcc ttcaaataatg cctgggtctt ggacaaactt	240
aaagctgaac gtgagcgcgg ggatcaccat tgatatttcc ctgtggaaat tttgagacaa	300
caaagactat ttttccatca ttgattgccc cagacacaca gacttcttct aaaacatgat	360
tatcagcaca tcccagctga ctgttgctgt ctgctcggtt ggtgttgtgt tgtg	414

<210> 771
 <211> 344
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(344)
 <223> n is a, c, g, or t

<400> 771
 gcacgaggca ggacctgaag gatcacatgc gagaaggctg gggacgtctg ttacgcagat 60
 gtgcagaaaag atggaatggg gatggttgag gtatctcaaa aaagaagaca tggaatatgc 120
 cctgcgtaaa ctggatgaaa ccaaattccg ctctcatgga ggtgaaacat cctacatccg 180
 agtttatcca gagagaagca ccagctatgg ctatttcacg tctcgggtctg ggggtggaggg 240
 gccgggactt ctctccaaa gcaaggggtt cccacacctc ttttcttctt ttctacccta 300
 ctgaacagng ggtggggatt tttttttttt ttttttagtg gact 344

<210> 772
 <211> 435
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(435)
 <223> n is a, c, g, or t

<400> 772
 tttttttttt tttttttttg tagagccggg aacttagggg cccacgagaa gcgcaccagc 60
 caccgttcgt tttttttcat caccggataa caccgggga ggaccgaggt taatagcttg 120
 gtgagcatgc atctttaacc aggatcaacg gtngacggaa cgatcaccca cggatactcc 180
 ggtgatagat ggggatgagg acattacctt cttaaagagg taccattgtt tctgaccac 240
 tgttaacctt gattaattgc ggacctgtgt tacagatgag acacgattta tttctgcctt 300
 tgaacactac ttgagctgat ctttcttctg tgtggggcga gcaggtagta caatgctctg 360
 ggaaagtga gggtcctagc atgcgtgtng tgctgtctat tcttctcaat aatctgagtt 420
 tagatatagc ggggc 435

<210> 773
 <211> 338
 <212> DNA
 <213> Bovine

<400> 773
 ctggtgtgaa gatcaatccc aagaactaca ctgataatga attggaaaag atcacaagga 60
 gggttcaccat ggagctggcc aagaagggct ttattggccc tggcgtcgat gtgcccggcc 120
 ccgacatgag caccggcgag cgggagatgt cctggatcgc cgacacctac gccagcacca 180
 taggacacta tgatattaat gcccacgcct gtgttactgg taagcccatc agtcagggtg 240
 gaatccacgg acggatctct gctaccggcc ggggagtgtt ccatgggatt gaaaacttca 300
 tcaatgaggc ttcttacatg agtatTTTTat gaatgaca 338

<210> 774
 <211> 503
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(503)
 <223> n is a, c, g, or t

<400> 774
 acctcattct gacaaaagat taaatcttgt cagaatgagg tgatagataa aattaaatca 60
 aatgcgcgtg atttaagacg caatctcact ttgcaggaac gaaagctctg gcgatatctt 120
 cgcagccgac gttttagtga tttcaaattt cgccgtcaac atccagtggg gagctacatt 180
 ctcgattttg cttgctgctc ggcgcggtga gtcgttgagc tggatgggtg gcagcatgat 240
 ttaacagttg cctatgattc caggcgcaact agctggcttg agtcgcaggg ctggaccgtg 300
 ctgcgtttct ggaataacga gattgattgt aatgaggaga cgngctgga gatattctgc 360
 aggaactgac cgccggnac cctctccctg aagagcgagg ggagaccga gccgatagcg 420
 ntgtgggaaa acatgagacg ggctggagat atcgcagggc tgaccgccac cacgccagaa 480
 aggtagggcg gtgaacgttg tgt 503

<210> 775
 <211> 601
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(601)
 <223> n is a, c, g, or t

 <400> 775
 ggcgttaa atgatcccc cggctgagaa ttcgccgagc gaagcaaaag aaccctgtct 60
 cctaagctaa gccaaagaaa gcttgaagcc aagaagcagg ttgaaagggtg tccacagcca 120
 caaaaaaaaa gaagatccgg acgtcgccca ccttcggcg gcccaaaaca ctgagggtca 180
 ggaggcagcc caaataccct cggaagagcg cgcctaagag aaacaaactt gaccactatg 240
 ccatcatcaa attccccctc accaccgagt cagccatgaa gaaaatagaa gacaacaaca 300
 cactggtatt tattgtggac gncaaggcca acaagcacca attaacaggc tgtgaagaaa 360
 ctcttgacat tgacgtgggt atgtcact tgcacgct gatggagaga aaagatatgt 420
 tgacgggctc ttctatgatg ctggatggtg nncacaaatg catatctaac tgagtcactg 480
 ctattncaat taaagtttac tttaaaaaaaa aaaaaaacta agggggccgg acccattcgc 540
 cttggagtga tacattactg ncggtttcag cggatgggaa aactggtacc atttcctga 600
 c 601

<210> 776
 <211> 566
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(566)
 <223> n is a, c, g, or t

 <400> 776
 gcacgagggt gcagtctctg agtggaggga gggccgacca gcgtatctcc gtctccctgg 60
 ggaaagggtg tggtgagggt gacgacatgg cctggtggaa agcttgggtt gaacaagagg 120
 gcgtctcagt gaagggcagc cccacttca acccacacc tgacgcanag accctctaca 180
 aagccatgaa ggggattggg accaagcagc aggccatcat cgacgtgctc acgaagagaa 240
 gcaacgcaca gcggcagcag atcgccaagt ccttcaagct cagtttggca ggatctcatc 300
 gagaccttga aagcgagctg agtgggcagt tgagaggctc atcatatcct catgtacccc 360

catacagaac gaagccanga gctatatgat gccatgaggn catagaacca agagggcatc	420
atcnaattct ggctctcgga ccagaaccac tcagagatat gaagcataca gagactatgg	480
tcacctgaag aaacacaaca acacacgcta ctgaagatcg nggcctctgc gcacaaagac	540
tgagtatggg acagatgccc gcaagc	566

<210> 777
 <211> 485
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(485)
 <223> n is a, c, g, or t

<400> 777	
tttttacatg aagctactca tatcaagagc aataatcagt cttacagcca gacagactgt	60
cagtcctcaa acttgactgt actgacctga ccatctccct tttctctcca gacaattgat	120
gattccccta tttttaatcg aggagtgtct gcttttcaac taccctcca tgtcatacaa	180
aaaccaacc atttataaac aatagtttta tatctagggt attgcttttt tgatagcaca	240
tccatgtgta ttattacttt cttttatttc ttaactatct gaatggagta tttcgtggaa	300
agctacagct ctgttcactt ttttgcttct acactttgca gatgcatggg attangcact	360
gcctcttttt acatctctga tcataatgca gagatttttc ttgtacacaa agcagattat	420
gattccttcc acgaggacac ttactagatg cttgctcgcc cgcgctatg taggatagat	480
ccatc	485

<210> 778
 <211> 602
 <212> DNA
 <213> Bovine .

<220>
 <221> misc_feature
 <222> (1)..(602)
 <223> n is a, c, g, or t

<400> 778	
cgtctgaaga ttttctattg ctgtcaagtg ccacctcatt gggccattca gcgccaactt	60
gcagggtttac tctttgagtt gggatgtacc aattcagccc ttcagatatt tgagaagcta	120
gaaatgtggg aagatgttgt catttgctat gaaagagctg ngcagcatgg gaaggcagaa	180
gaaatcctga ggcaagagct ggagaaaaag gaaacgcaa gtctatactg cttgctcgga	240

gatgtccttc gagaccactc ttactatgac caggcctggg agttgtctcg acccgcagtg	300
ctcgagccca gcgctccaaa ggctcctcc acctgcgaaa gcaggagttc anagaatgcg	360
tggagtgtctt cgaacgctct ctgaagatta aatccatgca gctcggagtg tggttttctc	420
tgggctgtgc ctatctggcc tgnaagacta cgnagntcag cgaggcattc agcggngtg	480
actctggaac cgacatgctg agcttgaaac atttatcact ctatatcgct taaacaaagn	540
aaagctttaa acatacagag cctcaggcac ttgacatgcg atcggaaact acttctacc	600
tg	602

<210> 779
 <211> 625
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(625)
 <223> n is a, c, g, or t

<400> 779	
ggaggctcca tccagaccag tgtgaatgcg ctgtcgtcag atgttctggg ccgctgccag	60
gtctttgaag agactcagat tggaggcgag aggtacaatt tcttcactgg ctgccctaag	120
gccaagacat gcactatcat cctccgtggt ggtgcagagc aatttatgga ggagacagag	180
cggtcctctgc acgacgccat catgattgtc aggagggcca tcaagaatga ttcagtgggtg	240
gctgggtggtg gcgccatcga gatggagctc tctaagtacc ttcgagatta ctcaagaacc	300
attccaggaa aacagcagct actgattggg gcctatgcca ggcccttgga aattatccca	360
cgccagctct gtgacaatgc tggttttgat gccacaaaca tcctcaacag ctacgggctc	420
ggccgcccag ggggcatggg gtacgggtgg acatcaacac tgaggacatg ctgacaactt	480
gagccttttg tgggaccacg agtgcggaca acccctgctg ccctcgagcc gggcctcatg	540
gttgtgatga acatataccc cctanaggat gctcccaccc tgnccggcca gcggcccctc	600
cgagttcacc cccacaggcc gcgtt	625

<210> 780
 <211> 563
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(563)
 <223> n is a, c, g, or t

<400> 780
 cagacctgaa ttccttaca tctgagaagt aaatagatag cactttgaag gggngcccaa 60
 cagagttgga ggcgtcatca aaactttggg ttcccctttg cccctcttaa gggttgggca 120
 gggtgaccct gaagtgggca cagcctggaa atggggctgg gggattggac accctcctgg 180
 cccttgattc ccacctctgt cctgtgaagg catggggaag gtagggggccc ggtacaaacc 240
 accctgcct cccactccc cctgacccc catcctcagg gagccagtct caatgggttg 300
 cttccctgtg cctgcattt tttcatgaac ccacaagcc cctgtttccc aaccagctct 360
 caatccctct ctgctcctcc cccttcctcc tgccctttcc ccttatattt tctcacctg 420
 gtggcagctt gggggggggc ctacccccac tctatgactg gaggggaaga catgctagcg 480
 aggggccac tctactcagc acgacgcccc ctctctactc tggggggggc tggggnccgc 540
 aggtcctga tagattgggt ggg 563

<210> 781
 <211> 618
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(618)
 <223> n is a, c, g, or t

<400> 781
 gcacgagggg ccgctcttcc tggctttggg gttctttctc cgcgtaacgt gtggtctctg 60
 atattcaacc ctctcccag cataggctgc atgaggcggn ggcgggctcc cacattcctg 120
 ctggcgag gggtagtgga ccggccccgc cccttcgggt cctcgaagct ttgccatga 180
 cccgtacccc aaaaccaga tgttggcctc cgaggagaga gtgaaaactg agtattttgc 240
 cttaaatttt ccaagcttct cttggtttca ggaatatttt ccttcgggat gcagaagagg 300
 agggcctgag tgtttatgca agctaagtgt tccggggctg agttttgctg ggggtgttat 360
 acgaccccga atccaccccc tgcccttagc cgctctgctg ctgtcgctgt tttggatgcc 420

gacactgctg cctgcagcct ctgccttct gttgctaccc cgagccctgc tgtccatgct 480
cagaagtccc ccggccaccc tcgccgctc ggctccgcta tgcccgtcg tctcgcgct 540
tgnactgcc caccagaggc gccagaaacg cagggggact tagtgaggag aaggcttaga 600
agagatggga cgccccct 618

<210> 782
<211> 387
<212> DNA
<213> Bovine

<400> 782
ccggttctcc cccaaccccg ctccgcaagg gagccgtgag ggccgcagac cctcaccttt 60
agtgtctcgg gagccagacc agtccccctc accccactat ataacaaact cagggtcagg 120
tacttcccgc ttttcttta cagcaaccct aaattcaggg gattatgtta acagtacagg 180
ggatgtaacc aataacctat ggccttacca atagacgctc ccctgaacca atccgtcccg 240
aggtacccca gcgcgggggg atttccgccc ggcagcgccc ccagactcct gcaccaacag 300
cccgccacc ccacgggtca ctgaaacaaa tgaacgcgca aactatgcac cttttccaag 360
cttaggatcg gttcgctcc ccgctt 387

<210> 783
<211> 476
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(476)
<223> n is a, c, g, or t

<400> 783
aaaccaaact ctatccaaag tcccagaaaa agcttcacac tccatagtgt cttttgttc 60
taatcttgtc agccagtaca agtgaccaag ttccagttat ttatttccaa aattcttggg 120
aaaaaagtgt aatttgacca aaaaaggata tttgtttttg ctattacacc aaatacagtt 180
caaatgetta ttgttctatt tttttaccaa tttcaatttc aaaatgtctg aatggtgcta 240
taatataaa acttcaacac tcttccaata acactgcgtt acattctttg aatcctagcc 300
cattttcaga gcatgacggn gcttaccatt aataattacc tttcttctga aacaggcaag 360
caagaaatag aaaagacttg cgtgtcaact aactaccccg gcagaactaa agaattcttg 420
aggccaaaaa gaaaattgta cgaatggcca actaagtctt aaaattgttt aaaaaa 476

<210> 784
 <211> 600
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(600)
 <223> n is a, c, g, or t

 <400> 784
 gcacgaggat acggcggttg cttgaattcc cgtcgtaact taaagggaag ctttcacaat 60
 gtccggagcc cttgatgtcc tgcaaatgaa ggaggaggat gtcctcaaat tccttgacgc 120
 aggaaccac ttatgtggca ccaaccttga cttccaaatg gaacagtaca tctacaaaag 180
 gaaaagtgat ggcacttaca tcataaatct gaagaggacg tgggagaagc ttctgttggc 240
 cgctcgggcc attgtcgcca ttgaaaaccc ggctgatgtc agtgtcatat cctccaggaa 300
 tactggccag cgagctgtgc tggagtttgc tgctgccact ggagccactc ctatcgctgg 360
 ccgcttcact cncggaacct tcactaccan atccaagccg catcaaggac caagctttgn 420
 ggtcaccgca tcccaggctg accacacccc tcacgaagct ttacggaaac tgccaccatg 480
 ccctggcaca cgactctctt ggctcgtggc atggctccgg cacacaggac gcctangggg 540
 gagggggagc tgccggagcc tggcgggcac atctcgaaca ccgggagctg cgacttcttt 600

<210> 785
 <211> 585
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(585)
 <223> n is a, c, g, or t

 <400> 785
 gcacgaggcg cagactgggt gcgcgcctct ttttcttcgc tgcctcccag ttctagatta 60
 accggcgcca tgggttttgg agacttgaaa agccccgctg gcctccagggt gctcaacgac 120
 tacttgccgg acaagagtta catagagggg tatgtgccat cacaagcaga tgtagcagtg 180
 tttgaagccg tctccggccc accacctgcc gacttgtgtc atgccctccg ttggtataat 240
 catatcaaat cctatgagaa ggaaaaggcc agcctgccag gagtgaagaa agctttgggc 300
 aagtatggcc ctgcttatgg gggagacacc acagaaagtg gagctacaga tagtaaagat 360
 gatgacgaca ttgatctttt ggatctgatg atgaagagaa agngaagaan ncaagagata 420

agaaaatacg ccttgccaga tgagtaaaga aagcaaaaac cacacttgtc gcaagtctcc 480
tcttatttac agaaactgga tgagagacga atgcaaaacta agaggggcag acatcaagca 540
agctgggcgg gctctttaca atcgggtggtg cataaaaaaca aacag 585

<210> 786
<211> 565
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(565)
<223> n is a, c, g, or t

<400> 786
cagtgacca actgcggcag atgctggaga atcagaagaa ctccctctgtg ccccttggtc 60
gagcatttgc agggtaaaga agcatttgag aaaaaagttg ggaatcatta aaagctagct 120
tgagagaaaa ggaaagagaa agccaaaaca aaactgaaga agtcttccaa ctcccatctg 180
agattcaaaa aacttaaaca agccgttaaa aaattaaaga ctcgaggagt gggtgatttg 240
tcgaaatata aagcaacgaa aagcgnattg gagacacaga ttttcgactt tatacgaaaa 300
ttggccaatc tgataggaag tatgaggaag tatggaggag ggtttttcat gcccaaaaag 360
aagaactgtc tgctaagatg agaagaattg ctccatttca catanagcaa gaaacaaaga 420
tcagcagaac gatgtgacaa tccttcacac catcacgagc tacaaaaaaa tacagatctg 480
ccaacaatca aacaaanaat aaatactgac gctcagagtg agagataaac ggctcatgcc 540
ttccactccc atgaaggagc cacag 565

<210> 787
<211> 317
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(317)
<223> n is a, c, g, or t

<400> 787
gcacgagggg aagatcctgc acattgactt tgggggactg ctttgagggt gctatgaccc 60
agagagaaat tcccagagaa aattccattt agnactaaca angaatgctg accaatgcta 120
tgggaggtca cggggccttg atggcaacta caggatcacg tgccacaccg cgatgggagg 180
tgctccggga gcacaaggac agcggcatgg gcgcgctggg agccttcgtc tatgaccccc 240

tgctggactg gaggggtggag ggcaccaata ccaaagggaa caagcgatca cggacgaaga 300
 cagaatccta ctctgct 317

<210> 788
 <211> 519
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(519)
 <223> n is a, c, g, or t

<400> 788
 gtcgtgggct cacacccggc ttctcttcag ccttaacctg tgcgccgcca tcgccgtcat 60
 gctaggcgcc gctgtccgcc gctgctctgt agctgcagcc gcagtcgccc gggccagccc 120
 tcgaggcctc ctgcacccca ctccggcccc cggccaagcc gccgctgtcc agtcacttcg 180
 ctgctactcc catgggtcac atgagacaga cgaagagttt gatgctcgtg ggtgacatac 240
 ttcaataagc cagatattga tgctggggat tgcggtaagg gatgaacaca ctgnntgctt 300
 ganctggntc cagagccaaa aatcatgatg ctgcttgccg catgcgaacg tttaatgatt 360
 tgtagngcag tcgcatctaa aagtggtaag acaaaacaga actataagaa tctacccttg 420
 tattcagaac tatacaactt gatgactgga attcactcaa gaacggcctg aaaggtaacc 480
 cagatgactc cagactatga atgtatgatt aataacgaa 519

<210> 789
 <211> 360
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(360)
 <223> n is a, c, g, or t

<400> 789
 ctcttttgag tgcaccgtga gtgatgtgtg tcatgcctct ggggtggagg gaagggaccg 60
 acacagacgt aactccccc actccacctg gtgaaaaagg atgcctggac gaaggtgggt 120
 tcggaccttg gtccttggtg gtgtaatgcc tttgtgtctg ataccaatgt atgggcgggt 180
 tccagctgat atgggtcctg cctcccctac cttccaaccc ccactacacg ctgtacccca 240
 gtatgacccc ctcttttcta atgccatgg aatgtgggat ntcgggcacc cacactgtcc 300

gcacgcctct tctattcgca ctgttgctc tcctcaacca ttaatcctaa cggccacatg 360

<210> 790
<211> 694
<212> DNA
<213> Bovine

<400> 790
gcacgagggc tgactattct caaccaacca taaagatatt gggtagcctt tatctactat 60
cttggcgctt gggcccgga tagcaagaaa caggttcttt agccctttgt aatttcggcg 120
cttgaattag gccaccccg gaacctctgc tggggagacg acccaaactt acaacggagg 180
ttggaaccgc acacgcattt gtaataatct ttcttcatag taataccaat cataattgga 240
ggattcggta actgacttgt tccccttaat taattgttgc tccgatata gcatttcccc 300
gaataaatat tataagcttc tgactcctcc cctccctcat tcctactact tcctcgctc 360
ctcttttagt gaaggtgggg caggaacagg ctgaaccgtg ttccctcct tacaggcaac 420
ccttccagc gggagcttct gtaaaattta cccttttttc ttacccttta caggagtctc 480
tcatttttag gacctcactt ctttcatcat tttaacataa gcccccgca gtaacatacc 540
aacccttgt ggttgttctg atattccgag gtcttttctt tttgttctgt tttcagcgtt 600
tctagttctt acgacgaacc aataccctt cgccggggag ggaaccctt ttctccctt 660
cttctggca cccgactttt tatctccggc cggg 694

<210> 791
<211> 690
<212> DNA
<213> Bovine

<400> 791
tgactattct caaccaacca taaagatatt ggtaccctt atctactatt tggtagcttg 60
gccgatatag taggaacagc tctaagcctt ctaattcgag ctgaattagg ccaaccgga 120
actctgctcg gagacgacca aatctacaac gtagttgtaa ccgcacagc atttgtaata 180
atcttcttca tagtaatacc aatcataatt ggaggattcg gtaactgact tgttccccta 240
ataattggtg ctcccgatat agcatttccc cgaataaata atataagctt ctgactcctc 300
cctccctcat tccttactac tcctcgcatc ctctatagtt gaagctgggg caggaacagg 360
ctgaaccgtg taccctccct tatcagccaa cctagccatg caggagcttt agagatctaa 420
ccatttttct ttaacttagc agtagtttcc tcatttttag gagccatcaa cttattttaa 480
aaattttaaa ttacagcccc cgcaagccac aataccacac cttcgggtt ttgaatccgt 540

ataattacgg cgtcctctaa tatttcgctt ctgtttttaca gtcgcttcac agtctttaac 600
gaccgaactt aatcaacctt ttgcccggcg tgggggaacc ttttttttta ctttatttgt 660
tttggccccc gtatcttttt atttaacggt 690

<210> 792
<211> 596
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(596)
<223> n is a, c, g, or t

<400> 792
tcaggacagc tactgtaact ccattcctgag gctcatgtac gcattctttc ctgagactca 60
aaacaacaaa acagggaactt agatttgga actgacttgg tctgatgaac cagacctgtc 120
tgagcctgca tgccaggagc tgatcagctc ctctgtactt gcaaactctaa gttttgctct 180
ttccttataa gatgtgtgat ccctgcagtc tctaattccc agatggaggc ccactcaggt 240
tatcatcatc ttcatgatgg gcttcccagg tgacgctagt ggtaaagaac cagcctgcca 300
atgcaggaga cgtaagagac atgagttcaa tccctggctg ganaagatcc cctggagaag 360
gaaatgnca cccattccag tattcttncc tggaaaatcc atggacatan gagcctgggg 420
gcgcatgatg gagatgacgn agtgactaac atagcagnca gaatggcagg catattacta 480
tacacaaang ctcaatggng aacactgtct gaacttctct gcttggtata cacagaatca 540
tatataccac acaccattt acgagaaaag tgatttatcc agaccgaca ccgctc 596

<210> 793
<211> 79
<212> DNA
<213> Bovine

<400> 793
gcacgaggag ccgcttcatt ctgccatcg gtgccacggt caacatggac ggtgccgccc 60
tcttccagtg tgtggctgc 79

<210> 794
 <211> 160
 <212> DNA
 <213> Bovine

<400> 794
 atggcctttgt ggggattcct acttttctctg actaggggtat tggattccat accccctggc 60
 agtgaaaagc ctagagtcct aaccactgga ccaccaggga attgcctatt ttttttaggg 120
 ctgaaaacct aaatagatga tgaatatact taagcaggag 160

<210> 795
 <211> 591
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(591)
 <223> n is a, c, g, or t

<400> 795
 tggagactgg tggttctcaa cctggcatgg tggtcacctt tgctccagtc aatgtaacaa 60
 ctgaagtga gttctgtaaaa tgcaccatga agcattgatg aagcccttcc tgggacatgt 120
 gggcctttaat gtcaaaaacg tgtctgtcaa agatgtccgt cgtggcaatg tggcgtggtg 180
 acagcaaaaa tgatccaccc atggaagctg ctggcttcac agctcaagtg attattttga 240
 accatccang ccaaatacgt gctggatatg cacctgtgct ggattgtcac acagctcaca 300
 ttgctgccag attgctgaac tgaaggagag attgatcgnc ggttctggaa aaaactggaa 360
 gatgacccta atncttgaaa tctggggacg ctgcatcgnt gtatgggtcc tggcagccat 420
 ggngngagag ctctctgatt atcctccctg gccgcttgct ggcgngacag agaagacagc 480
 gctgggggga tccagcangg acaaagcagc tgagctgcag gcacagncgc ccaaagccaa 540
 agataaagaa atatcccata ctgccccccc tataggggaa gacggccaac t 591

<210> 796
 <211> 505
 <212> DNA
 <213> Bovine

<400> 796
 cttggtttgtg tctggaaatc acccccgtgc agctgtcctt catgtgcagg agtggtgccc 60
 cagtgtcgtg gcagaggtga ctgtttcctg gcagggtgtg cccagggtct ccacagagga 120
 gccttttttc cttccccaga aatgtctcag tgaagaaggg ggcaggacag gtggccttgg 180

ggacagaaag cagactagac ttgctgtcat actggaagct ggccctgtcc tcagcacata 240
 agcagcattg ggagcagtca agcctggcat ccctgaattg gggttcaggg ggtgtgcca 300
 ggtgccctca tgtccccacc ccctcagact gctgcacccc agactgggat gctagccagg 360
 gacacagacc tacatgtgtg tgtgccctgg tgtgcatgtg tgccctgtggg gctgtgggga 420
 tgggtcaagct ctgcctgccc tctgtctgag ccatcttgtg gacttggatt ttgcgcttag 480
 gaggtggtct ggtgatgggg gggag 505

<210> 797
 <211> 399
 <212> DNA
 <213> Bovine

<400> 797
 cgctggggaa agggccttta atcgcgagag ttccgttctc ttgagagcgc ctccgccggc 60
 gcctagatcg cgcgagaccg cggaaggaac cgaagcgtgt ggcgcgcgcg gcggccgcga 120
 cggaacaag atggcgacgg cgaccatagc gctacaggtc aatggccagc aaggaggggg 180
 gtccgagccg gcagcagcgg cggcgggcggc ggcagtgggtg gcagcgggag acaaattggaa 240
 acctccacag gggacagact ccatcaagat ggagaacggg cagggcacag ccgcgaagct 300
 gggactgcct cccttgacgc ccgagcagca ggaggccctc cataaggcca agagtacgcc 360
 atggagcaga ccttaagagc ggctgtgaaa catacctcg 399

<210> 798
 <211> 465
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(465)
 <223> n is a, c, g, or t

<400> 798
 cgccccacac agtgaagaag cactaccgcc gtgccgtgct ggtgggtccac cccgacaagg 60
 cccgggggca gccctacgag cagtatgcc ggatgatctt catggagctc aacgatgcgt 120
 gggctgagtt tgagagccag ggctcccggc cactcttctg acctgcaggc acggctgcgt 180
 gtctggctct ggagccggtg ctgtgagcgg ccctcgaggg tggccagggc tccggcggcg 240
 tgggcaggcg tggctgcacc cggtcgtcgc gtcgtgcccc tgtgctcagc gggtcggagc 300
 cgatggcgct cccggcagga gaagagaaa cattccaaag cctcccagtc tctcttttct 360

gtcttggccc caagaaacgt gcactccgtg ctccacgcgt gtacgcttga tcgttntgtc 420
cagggcgcggt cagcagtgagg cgcgctggct gctactgcag agcgt 465

<210> 799
<211> 525
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(525)
<223> n is a, c, g, or t

<400> 799
tcgagttttt tttttttttt tttttttaac tgtataaact atttattaac acaaagccca 60
cacattattt cttcttggac acaccacag tgcgaccacg gcgggcctgt ggtcttgggtg 120
tgctggcctc ggacacggag tccccagaag tggcgagacc ccctgtgggc ccgaatcttc 180
ttcaggcgct ccaggtcttc acggagtttg ttgtctagac cgttggccag gacctggctg 240
tatttcccgt ctttcacgtc cttctgtctg tttagaaacc agctgggatc tttgatgggc 300
ggggattctg cataaggggg atcacacgnt ccacctctcc tcggtgagct ccccgccctc 360
ttgggagggc gatgtctgct ttctcacac cacagagcat atcttcccc caccctaattg 420
cagagagggg aagcaatttc cgccgccatg attgttgtga gactccagag tgctggactc 480
taggattcta aaaatggggg gcctacgggg gggggcgagc caacc 525

<210> 800
<211> 589
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(589)
<223> n is a, c, g, or t

<400> 800
gcacgaggtg ttgcgccact tgcgccctgg gcaagggatg ccctgtgggg tgtacacccc 60
ccgctgcggc tccggcctgc gctgctaccc gcccggggcg tggagaagcc cctgcacacg 120
ctggtgcacg gacaaggcgt gtgcatggag ctggcagaga tcgaggccat ccaggaaagc 180
ctgcagccct ctgacaagga cgagggcgac caccccaaca acagcttcag cccctgcagc 240
gccacgacc gcaagtgcct gcagaagcac ttggccaaaa ttcgagaccg gagcaccagt 300
gggggcaaga tgaaggtcat cggngcgccc cgagaggaag cccggcctgt gcccagggc 360

tcctgccaga gtgagctgca ccgggcgctg gagcggtg cgcctcaca gagccgcacc	420
cacgaagaac cttacatcat tcccatcccc actgcgaccg caacgcaact tccaccccag	480
caggccccacc gccctggatg gcagngcggc aggctggggg ngggacggag acggagggaa	540
gcttcggggg ctggagcgaa ggggagcgaa ctgcacagtg ctgacactt	589

<210> 801
 <211> 388
 <212> DNA
 <213> Bovine

<400> 801	
ctcccatgct ccctcttttg gcaaactgta agtactgtct cagcaaacag cgataatttc	60
acaatttcct ctctagaatt gctgagagac ttgagtcacc aaacgtggtt cactactgtg	120
gaaatgcatt gttcagaaca cagaaagaaa tttaagattt ctgcttttct gtgacagtat	180
ttgtttccgc ctcaagtcag agtgtgaact gcaggttcct ggcaagactg ctatttaaca	240
ttgcatgtga gaacctggta aataggcaga aaatcttgga gcttgaaagg aacctcagaa	300
tgattcatat ggtcattcat tagattggga ctttaaggg atctctttca gcctctctca	360
gtgcagaaat caggacaggg gtgcttgg	388

<210> 802
 <211> 554
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(554)
 <223> n is a, c, g, or t

<400> 802	
gcacgagggt tggtcctggt tgttttcttg gctaagatta ggacaaagaa catatgaaat	60
caacagaaaa tataccttgg taccaccaac ccattttatg ccacatgcaa gttttgaata	120
agaatggtat agaaaataac ttgctacata tgtatgtacc aattaggaaa tactgatgcc	180
cttgtgggca cagaaccaca tgacaaaact ttgaaaatca taaaaatata agatagtgtg	240
gctgagatgg aaacaggcct tattcttgaa tcccaatttt catctctcct tttcctattt	300
ggattttcttt ggtgctgtag gaaaaaaaaa aaaagagaga aaaatatata ttcataaaag	360
atatggngct cattcccatc catcaaggat gtgctaaaac aatgtgttta ataaattgta	420
attttatgta caggtctata ctgttatcta tgtgtccatt ttcaaaactg cacgtgtctc	480

tgaattcatc tgactctatt tttagacattg cagaaaatga tggcataaaa tatgtatatg 540
 aaaaaataaaa cggt 554

<210> 803
 <211> 560
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(560)
 <223> n is a, c, g, or t

<400> 803
 gcacgaggct ggagcataag aacagtgcgtt attttcttct tttccaagag aacagaaaga 60
 aataatgaag cattggatga tttaaaatcc cagaagaaaa aaataactga agaagtcag 120
 gaaaaagaaa cttataaaac agctaaatta attcttgaaa ggtttgatcc agattcaaag 180
 aaagcaaagg agtttgagcc accgtctgct ggagcaactg taactcccag acctggacaa 240
 gaattcgctc gcgaactgcc gctcaagaaa ctttcttcca caccagcagg ctccagccag 300
 gccctcctct gcaattccag tttctcctgg acaccaagga cacttcagcc cctgggtggac 360
 ccccagaaga ctgntactca gcctatatca atgtggtaca agacgtntgg acccctgctc 420
 tcagngctgg atgggnctct cctctgggca cttacagac catctgctcg agacagngct 480
 ctgataatgt gatattatgn gaggcccaaa agnaccctct atgcnacagt ttttacatgc 540
 tgtttgaaga aatgaacatg 560

<210> 804
 <211> 519
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(519)
 <223> n is a, c, g, or t

<400> 804
 caaattgaga ttgccaatg gaagcataag aacatcgga ctgagactca acatgcagaa 60
 gtcgatgcag agccatgccg cgggtgttccg tgtggggagt gtgctgcagg aaggctgtga 120
 gaagatcagc agcctctacg gagacctgcg gcatctgaag acgttcgaca ggggaatggt 180
 ctggaacact gacctggtgg agaccctgga gctgcagaac ctgatgcttt gtgctctgca 240

gaccattcta cgagcgggag cccggaaggg agtcgcgcgg cgcccacgcc aggaggactt 300
 tcagagaggt tgacgagtag gattactcca gcccatccag ggnacagcaga agaacccttt 360
 gagcacactg gaggagcaca cctctctacg ttgacatcaa gatggaaagn cacctggagt 420
 acagactgta tcgaagaact tgacgagatg actgcgcact ntccccacct ncgctctatg 480
 agagatgagc ttctgtctg tattgatata ctcaagcgg 519

<210> 805
 <211> 479
 <212> DNA
 <213> Bovine

<400> 805
 gcacgaggcc agataccgcc cccggggccc catcattgct gtgactcggg atcaccagac 60
 agctcgccag gcccacctat accgcggcat cttccctgtg gtgtgtaagg acccagtga 120
 ggaggcctgg gctgaggacg tggatctccg ggtgaacttg gccatgaatg ttggaaaggc 180
 ccgaggcttc ttcaagaagg gagacgtggg cattgtgctg accggggggc gccctggctc 240
 cggcttcacc aacaccatgc gtgtagttcc tgtgccatga tggactccga agccccctct 300
 ccagccccctg tcccaccctt cttccccaac catccgttag gccagcattg cttgtagtgc 360
 tcacttgggg ctgtaatggg gcctgtgggg cgggacacca ggaaaaaaga gaaaaccttc 420
 tggaaaccgg cggttttaaa ctttgctggg ccgggtagct acacctgggc cctctcacg 479

<210> 806
 <211> 396
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(396)
 <223> n is a, c, g, or t

<400> 806
 gcacgagggg aagcgaggcc ggagctgcgg gcgctttttc tgcccgcggg gtctcagatt 60
 cattcttaag gaactgagaa cttaatcttc caaaatgtgc aaaaagacca tcttatgccc 120
 cacctccac cccagctcct gcaacacaaa tgcccagcac accaagggtt gtgggataca 180
 atccatacag tcatctcgcc tacaacaact acaggctggg agggaaaccg ggcaccaaca 240
 gccnggtcac gggtctctct gttatcacga tttcaaaaac cccaagcca ccagataagc 300
 cgctgatgcc ctacatgagt acagcagaaa ggnctggacc aaataaaggc ttccaccctg 360

actanagtgt gggaaatggg gagatattgg gggnat 396

<210> 807
<211> 325
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(325)
<223> n is a, c, g, or t

<400> 807
gcacgagggt ttgcactcag gtccacgtgg ctctgagaag gggtcaggca tccgagctgt 60
ggggagccct ggggtgaagct ggttgtccag cggttcagcc tccttgaggg aagccctctg 120
cccgccact ccagagcgtg agagtgtggg ggcggtgccca gggaagggtgc ctgggaggac 180
gcagtgacca cgctcccctg gcaccacgca gaagtggacg agaagcccag cccacacccc 240
angcctcctg gctgtgccct gcggctgctg catttgcttt taattctcaa cactggaaaa 300
tactgacttt gggttgggcg gggcc 325

<210> 808
<211> 561
<212> DNA
<213> Bovine

<400> 808
ttctaggtgg atcccccggt ggtgggggtt gtgatgtgac atctgttttt tataccctgt 60
cgtgggcatt cgcggtggac gccacacgcc cgctgatggc cgacatgagg atagaccagg 120
gccgtaaccc tgcctaagtc cacacctcta ccttgcgttt tatgtagttc tttgcattct 180
ttgtggtggt tgatgttatt ccatttattg tgctttcatt tggttgggga tgctgatca 240
ttccgggggg ggctttccat acgcaggatt ggcctgcttg aattcccgtc attggttgcc 300
ccttcccgcc gggcgtaatg gcctggcggg ggggcgtgta tgtggccaaa tgataaccg 360
accgaatggc cgccacgggc tcatgtccgc aggaggcctt gtggtgatat atctaacccc 420
ccgggctctc tgggatgaaa acctattttg cccttcaaca ctcccggggg gctaaatggt 480
tgggcctttc ggtgttctca cccacaggga tggctaccct tcaactggtca atattcattg 540
tgtacactgc ctcgtttgcg c 561

<210> 809
 <211> 488
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(488)
 <223> n is a, c, g, or t

<400> 809
 gcacgagggg ttggcccaga cccaaccatg atccgagcca actgcctggg ccagaccaca 60
 gagtggagtg cctgttccaa gacctgcgga atgggcatct ccacccgggt taccaatgan 120
 cacgcattct gcaggctgga gaagcagagc cgcctctgca tggtcaggcc ttgcgaagct 180
 gacctggagg agaacattaa gaaagcaaaa agtgcacccg gacccccaaa atctccaagc 240
 ctattcagtt tgagctttct ggctgcacca gcatgaagac ataccgagct aaattctcgg 300
 gaggtggcac agacggcggg gctgcacccc ccacagaacc accaccttnc cgtggagtca 360
 agtgtcctgt gnngaggtca tgaagaagag atgatgttca tcagacctgt gcctgcctta 420
 cactgccccg ggacatgaca tctcggctct gttctacaga gatgtatgag acatgggctaa 480
 gccgaaca 488

<210> 810
 <211> 595
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(595)
 <223> n is a, c, g, or t

<400> 810
 ccgccccctg ctccggcagc cccactctg gactctccct cctggcttca gccttaccgg 60
 agccagggng atcctgcccc gaaaaggag ctctgatgtc ccctaggaga gggaagctgg 120
 agcccccccc cagacagctc ctctccctt tctggctggc ccacctggcc ggccctgagg 180
 cctcactgta accacaagac cttgtctctt cgccttattc ttctcactgc ctcttgggt 240
 ccctggctcc tgcgaggctc tgtggagctg gctccagcag ccacttccct gcttctctct 300
 gcctctctcc tggcaactgg agatgccaga atcactgccg cctgggctgg tagccggggc 360
 tggccctccc ccttctgcct gctggggaaa gaaaggctaa gctgggtgga ctggccctgc 420
 tgagctctct cctgtctggg tgcagggagc acccagatga cagcacctg ttctgtcatc 480

tcccttctac gccttcacct tggcacttcc cagtgaacga cagcagctgg agtccacacg 540
gccttttttc cgccatcttg gtccgccttc ccnatgtact gccccccagc gccct 595

<210> 811
<211> 488
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(488)
<223> n is a, c, g, or t

<400> 811
gtgagaaagg agcccctggt gctgacggac ctgctggagc tcctggcact cctggacctc 60
aaggtattgc tggacagcgt ggtgtggtcg gcctgcctgg tcagagagga gaaagaggct 120
tccctggtct tcctggcccc tctggtgaac ccggcaaaca aggtccttct ggagcaagtg 180
gtgaacgtgg cccccctggt cccatgggcc ccctggatt ggetggacct cctggcgagt 240
ctggacgtga gggagctcct ggtgctgaag gatcccctgg acgagatggt tctcctggcg 300
ccaaggggtga ccgtggtgag accggccctg ctggacctcc tgggtgctcct ggcgctcccg 360
gtgccccgc cctgtcggac ctgccggcag acgngatcg tggtgagacc ggtctgctgg 420
tctgctgtcc catggccgcg tgtgcccggt gcccgctgac cccagccccg ggggacaggg 480
agacagca 488

<210> 812
<211> 532
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(532)
<223> n is a, c, g, or t

<400> 812
cgagtacaca cgggctccac atcctcagag tcagccagcc gcgggtccgg agggccagtt 60
gtactgcctt tttatataag gaacttgggc attcgcgat gtaggcgng ggatggagtc 120
ctgcaaccag tccccacgg ataccgngg tgactgtgta ttatattga cctaaatctt 180
tagtgggtaa cattttatgc agtttgaatg aataaaaaata ttttctgtt gtttagtttt 240
atgtgtatgt attttacttt gatgaatgat tggttccgag gcctctgcca cactccagaa 300
atacttgtgt gggctgttta aaaaaaaaaa agctgtgtgt ctgttcactt atttctctaa 360

attatctcat tgcttggcat caatctttct catatagttg tcctaaccat tatgtacaca 420
naaatgaaac agatgggaag gagaccagaa aaaaaantga taataagaaa atgatgtttg 480
gctccatgtt tacatttttt tataaaaagt gcagaaggaa aaaaactgat ac 532

<210> 813
<211> 535
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(535)
<223> n is a, c, g, or t

<400> 813
gcacgaggcc ctggctctgc tggttctccc ggcaaagatg gatctcaatg gtctcccagg 60
ccccatcggg cccctggggc ctcgaggggc gcaactgggtg atgctgggtcc tgctgggtcct 120
cccgccctc ctggaccccc tgggtccccc agtcctccca gcggcggcta cgacttgagc 180
ttcctgcccc accacctcaa agaaggctca cgatgggtggc cgctactacc gggctgatga 240
tgccaatggg tcccgtagacc gtgacctcgg agtggacacc accctcaaga gctgagccag 300
cagatacgag acatccgnag cctgaagca gccgcaagaa cccgcccga ctgccgtgac 360
tcagaaggcc actctgatgg aagagcgaga atatggattg acccaccaag gtgcaccgga 420
tgcataagtc tctgcacatg gaacgnngac tggttacca ctcaccacgg gccaaaaatg 480
gatatacaga cccaagaaaa gacgcggacg ggaagagacg cgatccatga gtggg 535

<210> 814
<211> 224
<212> DNA
<213> Bovine

<400> 814
cacgaggcag ggctctatac ccctcacatt gcctgcttac cttcatactt gcccgtaagc 60
ttgtcctgct gcctgcctgt cctgcacact gaggagttct gcagacacac atgaggggtcc 120
tgagatactt catttctccc tttgcgctga cacgataggg cgcttgatct gatccatcta 180
ctggtattac cttgtgctga tgatgagaga tgcgtcggga agaa 224

<210> 815
 <211> 601
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(601)
 <223> n is a, c, g, or t

<400> 815
 cgcgagcccc aggacctgtg tgcagtagcc gcgcatcccg agccggacca cgtcggagtt 60
 cctctggacc cagacatcaa agccatgtcg aagcaccaca gcgacgccgg gacggccttc 120
 attcagactc agcagctgca cgcagccatg gccgacacat tcctggagca catgtgccgc 180
 ctggacatcg actcaccgcc cattacggcc cgaaacaccg gcatcatctg taccatcggc 240
 ccagcttcac gagcagtga gacattgaag gagatgatta agtctggatg aatgtggctt 300
 cgtttgaact ctctcatgga accacgagta cagcanaan catcagatgt acgtgaagca 360
 cgagagcttg tttcaatcat tctctatcgc cgggcagtgc cctggcacta aagactgaga 420
 tcgactggct atcaggagc gcacgtgagt ggactgaaag gagccactaa atacctggca 480
 tgctactgta aaggaaaaaa atctgggtga ctacaaaatt gcgggggagg ggggagatag 540
 gagatgcttt tttgtggaac aaggcgactc ggggagaggg agggccctgc aaaaaggga 600
 c 601

<210> 816
 <211> 514
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(514)
 <223> n is a, c, g, or t

<400> 816
 gcacgaggct cacggcctct tgctcaccca tgatatggct ccgttttctt cttgccgcgt 60
 gcacctccac ccattgtctt ggtggcacat ggggtgaaca cttgatctgc tcgagtctgc 120
 cttcaacaca cattgcatct tcagattttc tacttttttg ttcaaaacta atattcacca 180
 agtcagactt tgtgttaatt ttatatcaag gtattggctg ccaggggggc atccctaagg 240
 ggcctgaaga tgacaaaggg aataacagca cgggatgttg gcaaagatgc ttctaggcta 300
 gagatcagng ggggggagag aactgcagaa atcaccaacc agaactgcag atacgaatct 360

atgggcaggg ctgtgactga cagaagaaac gagctgtggt tgaagtacat aactctcaca 420
ataccagtct tcccatctcc ctctcattgc angcctttct tttgattagc aattgctaaa 480
cttcaaacca ggccatcgcc ctggatccca accc 514

<210> 817
<211> 690
<212> DNA
<213> Bovine

<400> 817
taattcgtgc acgagggctg tactttattc ctcatagttc ccacacagcg ccccggccag 60
taagtatgtt ccgggaaagg cctgtggagg aaggccagat attcaattgc aaatgtgggg 120
cagcccacaa ggggtggggcc caagaaagat ttgaaggcca cgagagaaaag aaaagccaag 180
gatgaaccag acttttgatc ggttacaaaa gtcataaggg ggcaagggaa aatggaggaa 240
caagactaat tcaagattgg aagtttaaaag aaactttcaa aagggaagc ttctccttga 300
aaggcttctt cccaagaaa gcccttgct tgctaagggg ggcagcctgc aagtagctgc 360
ttgctggctg ctggccaagg ttcccagcaa aaaaagatca cactgaagg taaagaaggc 420
tccagcccag aaggcctcct ggccacaaaag ctgcaggcca gaaggcagca cctcctccta 480
aaactcaaaa ggggcaaaa gcttcttccc aaaagccacc tgctcaaagc attgggaaga 540
aagcatgagg cataagaggt ttttaataaa aataaagttt ttttgactgg tggaaaatta 600
aaaaaaaaaa aaagggggcc ggacccaatg cccttttagga gggattaatt aacggcgggt 660
tttaacgggg atggaaaacc ggggaccac 690

<210> 818
<211> 615
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(615)
<223> n is a, c, g, or t

<400> 818
cttcacctcg gaccatggca aagacggaaa gatctttgtc tggaaaggca ggcaggccaa 60
caccgaggag aggaaggccg ccctcaaaac agcgtccgac ttcattctca agatggacta 120
ccccaggcag acccaggtct ctgtcctgcc cgagggcggc gagaccccgc tgttcaaaca 180
gtttcttcaag aactggcggg acccagacca gnacggacgg cccgggcctg agctatctct 240

ccagccacat tgccaacgtg gagcgcggtgc ccttcgacgc ggccaccctg cacacctcca 300
 ctgccatggc tgcccagcac ggcatggatg atgacggcag aaggcagagc agatctggag 360
 atagaagttc cgacaaaggc ccgggggaccc gccagtacgg acgtctacgg tgggacagct 420
 acatattttg tcactacccc acggggggctc aggacagata attacatgca ggcgccatcc 480
 accagatgag ggctgccggc catcgacgtt attgacaaga gtggagaatc ccggcaaccg 540
 gggccaggaa gacccctcac cttgacgttg ggaaaccata aattaggggg cccccgggg 600
 ggaaagcccc cccc 615

<210> 819
 <211> 507
 <212> DNA
 <213> Bovine

<400> 819
 caagaagggg aatgccgagg gaagcagtga tgaggaaggg aagttagtca ttgacgagcc 60
 aaccaaggag aagaatgaga agggagcgct gaagaggaga gcgggagacc tactggagga 120
 ctccccaaa cgccccaaagg aagcagaaga ccttgaaggg gaggagaaag agggggccac 180
 cttggagggt gagaggcccc ttccagtgga ggcggagaag aacagtaccc cgtctgagcc 240
 cggctctggc cgcgggcctc ctccaggagga agaagaggag gaagaagagg aagaggctgc 300
 caaggaagac gccgaggccc cggcctgaga gtcacgagag cctgtagcca ccaagtttca 360
 agaggagccc ctgccccgtt cctgctgtgt ctggggctac tgggaaactg gcctggcctc 420
 caactgggaa cccttcccca cccaaccact cttcttttcc actctcccct ttgactacac 480
 ctgaaatgac cccgagggca gcacggg 507

<210> 820
 <211> 513
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(513)
 <223> n is a, c, g, or t

<400> 820
 catcctcttc ctctctgtct cacgtgtgct ctttttcttt ctaccagtgt tatatatattt 60
 agcagcatct aactcaacat tgatttctgc atttcttgc aatgcacctt tagaagatac 120
 tagtcttggg acaggatcat tttggcctca ttcctttacc acccctacac ctaagaagca 180

tattttgcc	gaaaaattaa	tgtaagaagc	tttcagtatt	agtgatatca	tctgtcactg	240
taggtcatac	aatccttttt	taaagtactt	ggtatttggg	tttattgttc	cctttttttt	300
cctgccttct	tctcaaagtt	cattccccaa	agggccctac	tgtacttcct	gcagngcccc	360
tagcccagag	cccatggctt	tgatccctcc	atccccttgg	ctttgctgac	cttggggaatc	420
ttagtgcatac	gctgggtatta	tatgacactt	tctggggagt	gccctaattg	ctaaatcaaa	480
ctggattatg	ggcaancagc	ggcttaagaa	gaa			513

<210> 821
 <211> 517
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(517)
 <223> n is a, c, g, or t

<400> 821						
ctgtggttaa	gcgagagaag	cgttgggtcaa	ctgccactcg	aatcacggag	acaggaagtc	60
cctgccatgc	ctcacatcga	caacgacgtc	aaactggatt	tcaaggatgt	cctgttgagg	120
cccaaacgca	gtacccttaa	gtctcgaagt	gaggtggatc	tcacaagatc	ctttgccttt	180
tcgaactcaa	agcagatgta	cactgggatac	cccattattg	ctgccaatat	ggatactgtg	240
ggcacctttg	agatggccaa	ggtcctctgt	agtttctccc	tcttactgc	tgtccataaa	300
cactacagcc	tcgagcagng	gaaagagttt	gccagccaga	tcctgactgt	cttgagcatc	360
tggctgccag	ctcaggcaca	ggctctttcg	actttgagca	gctggacaga	tcctgaacgc	420
tattccccag	nggagaatgt	atggcgggag	cgggccaaag	gctactctgt	acacttttgt	480
atttgtgaag	gagtgcgga	gcgcttctctg	acacacc			517

<210> 822
 <211> 329
 <212> DNA
 <213> Bovine

<400> 822						
gcacgggggc	tagctgatgc	gctcaaggag	aacgaccctt	ccagcgtgct	tctcttcctc	60
gtgggggtcc	aagaaggacc	tgagtactcc	tgctcagtat	atactgatgg	agaaagatgc	120
actcaagggtg	gcccaagaga	tgaaggctga	gtattgggca	ggctcatctc	tactggtga	180
aaatgtccag	gagttcttct	ttcgtgtggc	ggcgtgacc	tttgaggtca	acgtgctggc	240

tgagctggag aaatcgggat cccggcgcac aggggatggt gttcgcatca acagtgatga	300
cagcaacctc tacctaactg cccagaaga	329

<210> 823
 <211> 670
 <212> DNA
 <213> Bovine

<400> 823	
gcacgaggct gggcctccta cgccggtgca gggccaagtc tcggccgact tacaacaagg	60
tagctgtcac aagggcgggg ttaccctcgg gttcctgtgc gggttcattc cccccaaaag	120
agtccatggg accagaccac aaggctctcc caggggacca agggggaagg gaccgggatc	180
ccaggggtgtg ggattgccaa aacaaccgga gggatggctt caaggaacaa gcgcccatgc	240
ctggaaataa cctggaaaat cgccccaagg accctggaaa atgtactggg gatcaacta	300
ttttcgagaa taataaaaat aaaaaaagga aacagaatct tttgggcttg ggcgtttgat	360
tgccctttgg acttaaatat tttttgtaaa aaagaaaaat aaaattgacc cccaaagatt	420
ggctctttccc atggtagcga agattaagga acatcttttt ttaatgacaa aaaaatttgt	480
ttataaaacc ccatcaaaca aaaaagactt ccttgatttt gtgttcttac ccccccccc	540
cgggggatca aaaagcggat ccttgaattt tgcttgggga aaccatgaac ttgtcatgcc	600
cccccggaag cccccaccct tgaggggcac aaataaaagc ccaaccgga ggaaaaaacc	660
acaaaaccgg	670

<210> 824
 <211> 439
 <212> DNA
 <213> Bovine

<400> 824	
gcacgaggcc gtacgctccc tgcacttcgg gtctgcttgc tccagcccgc tctgccgccg	60
ccgccgtcgc cgccatgggc ccaagctgac attgccctga ttggactggc tgtcatgggc	120
cagaacttaa ttttgaacat gaatgaccat ggctttgtgg tctgtgcttt taataggaca	180
gtctccaaag ttgatgactt cttggccaac gagggcgaag ggaccaaggg cttggtgctc	240
actccttga ggaaaggcgg ccaagctgaa aaaaccacgc gggatcatcc tccttgggaa	300
ggcgggaggc cgtggatgat tattgagaaa tggtagcttg ctagaattgg tgatatatta	360
tgatggagaa atttgaatac ggatacagaa aggggggaga ctgagaaaag gaattgttgg	420
ggggggaagt agggggaag	439

<210> 825
 <211> 683
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(683)
 <223> n is a, c, g, or t

<400> 825
 ttgagtttctt tcctcaccat gtcttctcac aagactttca ggatcaagcg attcctggcc 60
 aagaaacaaa agcagaatcg tcccattcct caatggattc gaatgaaaac tggcaataaa 120
 atcaggtaca actccaagag aagacattgg agaagaacca agctgggtct ataagaagca 180
 agctgggtct atgagaagtg gtcttaacat gtagaccact tttttaagca gccagatcac 240
 aatgaaaaca tcactactgt aatgcttggc ccatgatgtt atttcctcac tatcagtctg 300
 agaccagca ataaatataa aacgttgcaa aaaaaaaaaa aaaaaactcg agggggggcc 360
 cggaacccaa ntcgcctata gtgagtcgga ttacaattca ctggccggcg gtttacacgc 420
 gcgggactgg gaaaaccctg gcgttaccca cttatngccc tgcaacacat ccccctttgc 480
 cgctggggna tagggaaaag ccgcaccgac gccctccac agttggcacc cgaaggggaa 540
 gggaaatgta gcgttatatt tggttatatt ggtaattttg ttaataattc tttttaccaa 600
 gcgaaagggc aaacctttaa aaaaaaaaaa ggaaggtggg gggtccgtgg gacaaaacct 660
 ttaaaaaggg ctccgccggg gaa 683

<210> 826
 <211> 790
 <212> DNA
 <213> Bovine

<400> 826
 acaaaactgg agctccaccg cggcggcgcc cgctctagaa ctagtggatc ccccgggctg 60
 caggaattcg gcacgaggaa agggattcta tcctaataac aggtctcttc tcccacctta 120
 acggcgctc ccctcagcac ccacctgtcc cctctccgca gtttgcatat aggaacgtgg 180
 gccatcctgc cgttgcgtgt acttgccggc tcaaaccacc ttcgtgggga acccattgta 240
 ttgccagggg ctgaagcaaa gtagccctc ctttctctcc actgatgcc aacaagaacc 300
 tccctccagt ctcagtcact cttgttttct atggaaggga aaagggttgg tctacctaac 360
 aagtaggcat tgcgaatggg ccagtatatt ccagtccttt aggcataagg aaaatgcatt 420
 ctaccttctc ctgccccctc cttcctttta aacaaaaaag gagatacaac ctctgtgcc 480

aaagtaatgg gtccattcag aaggtggaga agcatcatcc gttgggtagc tattgaggtt 540
 aggaccactg accctcccgg ggaaggatgc aatgatttgt gacagtcctc agaaaatttg 600
 atatgcagat gaggccgaaa ttttctcata ggtattattg actaagagat aaattttttt 660
 atcttgggcg gtgttcttaa tttgacgggc ggtggctccc accaaccttt ttttcttttg 720
 ggttttacca aaaaggttta aaccaagtt tttttttca aaccctttct tacttttttt 780
 tttttattgc 790

<210> 827
 <211> 598
 <212> DNA
 <213> Bovine

<400> 827
 taagaagatg cctgcacaca agactaaaag ttcagtgatc ttatgccag atggacagtc 60
 ccaggcccgg tggttctacc tgctgcaagc tgcccactgg aaagtatggc tgctgcccga 120
 tgcccaatgc catttgctgc tccgaccacc tgcaactgctg ccccagaac actgtgtgtg 180
 acctgacca gagtaagtgc ctctccaagg agaacgctac ggacctcctc accaagctgc 240
 ccgcacacac agtgcaggat gtcaagtgcg acatggaggt gagctgcca gacgactaca 300
 cctgctgccg cctacagtcc ggggcctggg gctgctgcc ttttgtgcag gccgtgggct 360
 tggaggacca tgtgcaactgc tggccgtccg gtttaggtgt gacacagaga tggtggtgtg 420
 gagcagggga cccgccagtg ccgggatgaa gaagccccac cacctcacc gcggacctcg 480
 aagcgcgggg gggagcccct ggataacgca cagtgtcttt ttcctactgt gcgattaagc 540
 gggagggcct gtgcctgtcc aagtgtgct gtcgaccccc ctgtgccaag gctacggg 598

<210> 828
 <211> 468
 <212> DNA
 <213> Bovine

<400> 828
 gcacgagctg ggtcggcagc ggcaagactg tttggccgcc tctacaaggt cccggccatg 60
 ttcagctcca gtgccaagat tgtcaagccc aacggcgaga agccggacga gttcagatcg 120
 gggatctccc aggcctgtct ggagctggag atgaactcgg acctcaaggc gcagctgcgg 180
 gagctgaaca tcacggccgc caaggagatc gaagttggcg gtggccggaa agctattatt 240
 atcttcgtcc ccgtcccga gctgaagtct ttccagaaaa tccagtgcgc ctgggcgcga 300

gctggagaag aagtttaggg gagcacgtcg ttttattgcc cagagtataa tctggctaaa 360
ccactcgaag aacccgacga aaataacaaa acgtcccaga ccgcacttga cgctggcacc 420
acccctttgt agattggttt ccaggaaatg gggaaaagat cggggagt 468

<210> 829
<211> 538
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(538)
<223> n is a, c, g, or t

<400> 829
gacagttcat agtgggtgaga aaccttacia atgtgatgaa tgcggcaagg cctttcctat 60
aaagtcaacc ctttcacagc atcagacaat tcatactggt gagaaacctt acaaagtga 120
tgagtgtggc aaggcctttc gtttaaaggc agtcctttta aagcatcaga caattcatal 180
tgacagaaa ccttaciaat gtgacgagtg tggcaaggcc tttcgtgtaa agtcaaccgt 240
tttaagtcac caggcagttc atactggtga gaaaccttac aaatgtgatg agtggggaag 300
agtcttccgt aaaaaaccac agcttccacg tcaactgcaga attcatalct gagagaacct 360
tttatatgta agaatggggc agttcttcag tcaaattcac accttataga catcgagata 420
ctatagaaaa acttcaatgt ttgaggggga aaatctttat caggcacaca ctctaaaaat 480
aaaaatccat actataaaaa atatggagtg gattaaanaa atttaattca agtgaaag 538

<210> 830
<211> 595
<212> DNA
<213> Bovine

<400> 830
ttcccaggtg ctgctggccg agtcggtccc cccggcccct ctggaaatgc tggaccccct 60
ggccctcctg gccctgctgg caaagaaggc agcaaaggcc cccgcggtga gactggcccc 120
gctgggctgc ccggtgaagt cgggtcccct ggtcccctg gccccgctgg tgagaaagga 180
gccctggtg ctgacggacc tgctggagct cctggcactc ctggacctca aggtattgct 240
ggacagcgtg gtgtggctcg cctgcctggt cagagaggag aaaagagctt ccctggtctt 300
cctggcccct ctggtgaacc ccgcaaacia gttccttctg gagcaagtgg tgaacgtggc 360
ccccctgttc ccatggcccc cctggattgg gtggaccccc tggcgagtct ggacgtgagg 420

gagctcctgg tgctgaaaga tcccctggac gaaatggttc tctgcccga aggggtgaccg 480
 ggggggagaac ggccctgctg gactcctgtg ctctggcgt cccgcgcccc cgccctgtgg 540
 gactgccggc aagacgggga tgggggagaa cgccctgtgg tctgtgtccc attgc 595

<210> 831
 <211> 445
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(445)
 <223> n is a, c, g, or t

<400> 831
 cctggattgg ctggaccccc tggcgagtct ggacgtgagg gagctcctgg tgctgaagga 60
 tcccctggac gagatggttc tctggcgcc aagggtgacc gtggtgagac cggccctgct 120
 ggacctcctg gtgctcctgg cgctcccggt gccccggcc ctgtcggacc tgccggnacg 180
 agcgggtgatc gtggtgagac cggctcctgct ggtcctgctg gtccattgg ccccgttggt 240
 gcccggtggc ccgctggacc ccaaggcccc ccgggggaca agggtgagaa cagcgaacag 300
 ggcgacagag gcattaaggg tcaccggggc ttctctggtc tccagggcc cccgcccctc 360
 ccggcttcct gtgagcaagc ctttcggagc tctgtcctgc tggcccgcgg cccccctggc 420
 tttgtgtttt cccgaaaaat gactc 445

<210> 832
 <211> 453
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(453)
 <223> n is a, c, g, or t

<400> 832
 tggacctcct ggtgctcctg gcgntcccc gtgcccccg cctgtcggga cctgccggca 60
 agagcgggtg atcgtggtgg agaccggtcc tgcttggtcc tgctggtccc attggccccg 120
 ttggtgcccc tggccccgct ggacccaag gccccgtgg tgacaagggt gagacaggcg 180
 aacagggcga cagaggcatt aagggtcacc gtggcttttc tggctcctag ggtccccccg 240
 gccctcccg ctctcctggt gagcaagggt ccttcccag cctctggtcc tgctgttccc 300
 cgcggtcccc ctggctctgc tggttctccc ggcaaagatg gactcaatgg tctcccaagc 360

cccatcgntc cccctgggcc tgagtcgcac tggatgatgct gttcctgctg gtccctccgc 420
cctcctggac cccctgggcc ccagnccctc cag 453

<210> 833
<211> 579
<212> DNA
<213> Bovine

<400> 833
gcacgagggc tggctctgct ggtcccattg gccccgttgg tgcccggtggc cccgctggac 60
cccaaggccc ccgtggtgac aagggtgaga caggcgaaca gggcgacaga ggcattaagg 120
gtcaccgtgg cttctctggt ctccagggc cccccggccc tcccggtctt cctggtgagc 180
aaggctcttc cggagcctct ggtcctgctg gtccccgcgg tccccctggc tctgctggtt 240
ctccccgcaa agatggactc aatggtctcc caggccccat cggccccctt gggccctcga 300
ggtcgcattg gtgatgctgg tctgctggt cctccccggc ctctggacc cccggccccc 360
cagtcctctc cagcggcggc tacgactgag ctctgcccc accacctcaa gaaaagctca 420
gatggtggcc gctatacggc tgatgatgcc aaggggccggg cacgggacct aagggggaacc 480
accctaaacc tgaccacaaa agaaacaccg aaccggaggc accgcaaacc cgcccccccg 540
ccggactaaa agcccttttc ggaaagaaaa atgattgcc 579

<210> 834
<211> 257
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(257)
<223> n is a, c, g, or t

<400> 834
gcacgaggct tggaccccaa ggcccccggtg gtgacaaggg tgagacaggc gaacagggcg 60
acagaggcat taagggtcac cgtgggcttc tctggtctcc agngtcccc ccggccctcc 120
cggctctcct ggtgagcaag gtcctttccg agcctttggt cctgcttgct cccgcggtcc 180
ccctggctct gcttggtctt ccggcaaaga tggactcaat ggtcttccag gccccatcgg 240
tccccctggg cttggag 257

<210> 835
 <211> 486
 <212> DNA
 <213> Bovine

<400> 835
 gcacgagggc ccagaacgtg ctgtcgaagg cggacgtgat ccaggccacc ggagacgcca 60
 tctgcatctt ccgggagctg cagtgtctga cgccccgagg ccgctacgac atccgcatct 120
 accccacctt cctgcacctg cacgggaaga ctttcgacta caagatcccc tacaccacgg 180
 tgctgcggtt cttcctgctg cccacaagg accagcgcca gatgttcttt gtgatcagcc 240
 tggaccccc catcaagcag ggtcagactc gctaccactt tctcatcctg ctctttctcc 300
 aggacgagga catctccctg acgctcaaca tgaacgagga ggagggtgga gaaggctttg 360
 agggcggttc accaagacat gtcaggatcc ctctcgagag ggagccggt catgaaaggc 420
 tggtgaccgc agatcagggc ccgccatttt caaggcactg ggggccaggc atcactgtcc 480
 acaggc 486

<210> 836
 <211> 527
 <212> DNA
 <213> Bovine

<400> 836
 gcacgagcgc tgggccgccg ccatgtctct agtaatccct gagaagttcc agcacatctt 60
 gcgagtactc aacaccaaca tcgatgggcg gcggaaaatt gcctttgcca tctgtcaat 120
 taaggggtgtg gggcgaagat atgctcatgt ggtggtgagg aaagcagaca tcgacctcac 180
 caagagggcc ggggagctca ccgaggatga ggtggaacgt gtgatcacca ttatgcagaa 240
 tccacgcca tacaagatcc cagactggtt cttaaacaga cagaaggacg tgaaggacgg 300
 gaaatacagc caggtcctgg ccaacggtct agacaacaaa ctccgtgaag acctgcagcg 360
 cctgaagaag attgggccc caggggctgc gccacttctg ggactccggt ccgagccagc 420
 caccaagaca cagccgccgg ggcgcactgg gggggccaga agaaaatggt ggcttggtta 480
 taaatattat aagtaaaaaa aaaaaaatg agggggcccc accattc 527

<210> 837
 <211> 531
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(531)
 <223> n is a, c, g, or t

 <400> 837
 cggcggcgag atgtccggag gatcagctag gagcctgggc aagggaagcg cccccccggg 60
 gcccgctccc gaggggcctg atccgtgtct acagcatgag gttctgcccg tatgcccaga 120
 ggactcgcct ggtcctgacg gccaaaggga tccggcatga agtcatcaac atcaacctga 180
 aaaataagcc tgagtggttt ttcaagaaga atccctcagg cctgggtgccg gttctggaaa 240
 ccagtcaggg tcaattgatc tgtgaatctg ccatcacttg tgagtacctg gatgaagcat 300
 atccagnгаа gaagctgttg ccaggcgacc cctatgagaa agcttgccaa aagaggtctt 360
 ggagtccttt tctaagtacc acctttgata ttgagatctt atatacaaaa taagaagatg 420
 ctctggctaa agaaaaatga taaagaatac caactaagna ggtctgatga aagaaaaaac 480
 ttcttgtggc attttttttt tatgatacta ttgccctggg gaagctggag c 531

<210> 838
 <211> 435
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(435)
 <223> n is a, c, g, or t

 <400> 838
 cgccgggggg ccatgggacg gnggccgctg atgggaaggg gccgcgtgtg tttttgcaga 60
 agtcagcggg ttcggggacc caaaagatgg gagggaagaa acctggnggc ggngtcttct 120
 tatcccgggc ccagtcnccc ccacggtggg ncgcggcggg cttcgagtgt cttttgtacc 180
 acaaagaggg tcttagctct tggaggggtg ggcgaggggg aggctcgcgg ccgcgctggg 240
 actggcaagg gtgggatccc gtctggggca gagtgtgtgg aggcgtgggc ccccgtggg 300
 gcagagggag aagccccccc ctgtagcctg ggcggccgc agccttttct gccttgata 360
 cccgcacaac agatccccac tttgctgtgc ggggcgacgc ggcccggccc acggcagacc 420
 tgggtggcaa cagct 435

<210> 839
 <211> 558
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(558)
 <223> n is a, c, g, or t

<400> 839
 gcacgaggtt tttttttaaa aaacaaataa aagggtttatt cataagcagg aatgctgtcc 60
 agaatacata cagtgcacaaac tctccttggtc cttgggatca acacaagccc acaagccagg 120
 aaaattgtta tcagtttaggt caaatggact cccccagca cttggggcct agcctggcca 180
 aggccccctt ccttggcaga gaagggttctt tttctgtttg gggtcacaca accaaaccca 240
 aaatggaagc tgagattaga gcagcacaaag ctttattcat tggtcagaga atggagaagt 300
 gggaacttat taaccgttga taaacaaact tctcgcctta atgtggagcc agatttgctg 360
 ttaagagcat gngggaaaga gtgcgagaat gggggggagc aaagctctcg tttctgggaa 420
 gagcagggtt tccttaatga gngccacttt tttgcctttt tntcaggatt ctgtcacgaa 480
 cagagnnanc attatactat gagagttagt catcacgta gctgtcgatt tggaccaga 540
 tgacagcagc tccgtctc 558

<210> 840
 <211> 553
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(553)
 <223> n is a, c, g, or t

<400> 840
 ctattctcaa ccaaccataa agatattggt accctttatc tactatttgg tgcttgggcc 60
 ggtatagtag gaacagctct aagccttcta attcgcgctg aattaggcca acccggaact 120
 ctgctcggag acgaccaaatt ctacaacgta gttgtaaccg cacacgcatt tgtaataatc 180
 ttcttcatag taataccaat cataattgga ggattcggta actgacttgt tcccctaata 240
 attggtgctc ccgatatagc atttccccga ataaataata taagcttctg actcctcctt 300
 ccctcattcc tactactcct cgcacacctt atagttgaag ctggggcagg aacaggctga 360
 accgtgtacc cctccctanc aggcaacctg gcccatgcag gagcttcagt agatctaacc 420

attttctctt acactttaca gagtttctca ttttaggacc atcaacttat tacacaatat 480
 taaataagcc cccgcatgga cataccaaaa ccttggtgtg atcgtatatt acgcgtacta 540
 tacacctcgt cct 553

<210> 841
 <211> 466
 <212> DNA
 <213> Bovine

<400> 841
 tctcaaccaa ccataaagat attggtaccc tttatctact atttggtgct tgggccggta 60
 tagtagagaa cagctctata gccttctaata tttgcgctg aattaagccc aaccgggaac 120
 tctgcttcgg gaaacgaccc aattctacaa cgtgaattgt taaccgcaca cgcctttgta 180
 ataatcttct ttatattaaa taccaatcat taattggagg atttgggtaa ctgacttggt 240
 ccccttataa ttggtgcttc cgatattata tttccccc aaataaatat taacttttga 300
 ctctccctc cctctttcct actactcctg ccttcccttt ttttgtaact ggggccagaa 360
 caggtgaacg cgtaccctc ccttacaggc aacctaccct tgcaggaact ttatagattt 420
 aacctttttt tttctcttat aagatttctt ttttttgaa cattca 466

<210> 842
 <211> 514
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(514)
 <223> n is a, c, g, or t

<400> 842
 gcacgaggtt aagttaaata taattgagat aagagttttg ggagttgagc tctttgggaa 60
 taactgtttt aggaaatcta cttaaaaaaa gtctctccag attttgcaa cttgaaagtt 120
 ttgttaagtt aaataatggg gagtcactgt ctgaattgct aattgctaaa caagtctaag 180
 ttcaccccc ttttttatga gagaaaaact aaatatgttt gggtttgta gaaacatatg 240
 acaccacact gaggacagaa gttattcgat gagatgacgt gtgtttctga agactgtaga 300
 aacataagtt tccaatcagg aagccctggt atgatcaca gtccttgctt ctgttttgct 360
 ggagatcagg gttcttaagg ctgtgttggt tagtgctcgg cacctccgat cttttngnac 420
 ccatggacgt accccccagg ctctctgcca tanattctca ggcagaaact gaagggtgcc 480

gttcctttgc ggggactccc ccccaggtcc acag

514

<210> 843
<211> 586
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(586)
<223> n is a, c, g, or t

<400> 843
tttgagata catggaagct ttactggaca ggggtggaggg gctgccagcg gggggcgggg 60
ggcaatgcag gcagggcagg ggttggtggct cttgacctgg agaccccggc acgtggccgc 120
tcccagcact gacggcgccct tccctgggag cttgaggctt ctctggaggg cgtcccttca 180
ccaaccaaca gccagagttc ctctcctcct ggaactgtgg ggggcagtga gtgccatgtt 240
ggagggcgag gtcggagggc cccgcagcaa gagctgccag ggtttcggng cgaaggcagg 300
cgtgagaagc agcttctttc gcaaggtcgg ntgcgggggg cgnggggcgg atctggccgg 360
gttctcccct ggggcggcgg acggggaaag cagacctgct gctgncttgc ccntgctcct 420
ggaaagagaa gagagcctat gcgccagacc tcgtccacag cacttcttgt attccgtgtc 480
cgcgcccaa actgtacctc tcccaacggg tgctttgacg taaacaaatt tgggcctcct 540
ttgtttccaa aaccgttggt atgttcgccc catatcttga ggcgga 586

<210> 844
<211> 618
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(618)
<223> n is a, c, g, or t

<400> 844
gcacgagggc gggcgctttt tctgcccgcg gtgtctcaga ttcattctta atggaactga 60
gaacttaatc ttccaaaatg tcaaaaagac catcttatgc cccacctccc accccagctc 120
ctgcaacaca aatgcccagc acaccagggg ttgtgggata caatccatac agtcatctcg 180
cctacaacaa ctacaggctg ggagggaacc cgggcaccaa cagccgggtc acggcgtcct 240
ctggtatcac gattccaaaa ccccaaagc caccagataa gccgctgatg ccctacatga 300
ggtacagcag aaagggctgg gaccaaataa aggcttccaa ccctgacctt aagttgtggg 360

nagattgcc	agatattgtg	ggatgtgcga	gatctcactg	atgaaaaaaaa	aaaatattta	420
acgaaaacca	gcaaaaagat	gatacnatga	tctatgaggc	ctacataatc	ccccgcacct	480
gctactaaag	caaagagcgc	agagcgcttt	aagaaaaaaaa	gaagaaacgc	ggctgagaag	540
agacctactg	aatcaccgct	gaacccaaaat	ttnagagttt	tatgaaaaaa	cccgcctcc	600
aaaaaccccc	cagaacct					618

<210> 845
 <211> 402
 <212> DNA
 <213> Bovine

<400> 845						
gcacgaggca	gtccctaatt	gaggaactaa	gacctaaca	actgtggggt	gaggcctaag	60
aaaaaaaaa	aaaaaaatg	ggtgggtcaag	gagggccctt	tctgaggagg	tgacatttac	120
gcagagatgt	gaacaaagt	aggggttttc	ctggggaaac	acttgccagg	cacaagtgtg	180
atcatgctta	acatgttcgc	tagcaaggac	tgtaggggaa	tatttatgag	gaacgcatgt	240
gccacaagaa	cagagatcct	gttcacctat	aatgccttga	gcagacctgg	catgtaccct	300
caacaatact	tggtgaatga	atggatgggc	agatagatgg	attttaatga	atgagcaata	360
atgatacatt	ctcccaataa	cctggagcca	gaagagagga	ga		402

<210> 846
 <211> 520
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(520)
 <223> n is a, c, g, or t

<400> 846						
ctcacctgcc	acctatgggc	cacctgaagc	agtgccacgg	ccaggaggaa	gctggcaggc	60
gcaaattgtg	gtcagccctt	gctgggctgc	tgcgggggga	caggtcctcg	cctctgctga	120
gtccgctgaa	agccccagac	tccctgcccc	aggggactcc	actggcagcc	agcctctctg	180
cagcctccct	aacaccctta	tgtgtctcaa	aagaggggaa	tgccctctg	ttcaatgccc	240
ccagccatgc	ccagagctca	agccaagctc	ctgcagggac	tggcgtgccc	tccccaggcc	300
ccacgtgcat	ggacgcttcc	ttagtgctg	cccgtcctt	gctgaaggct	acagagaaga	360
ggggncctaa	tcaggcctgg	tgaatgctg	cccctggaag	ccgccaggct	gcagagttcc	420

agagactctg ggactttgag agaagntttc aaaccagcc tacagggacg acgccccact 480
ccttgctggc cgggtcacc ctcccaggag ggggtccgg 520

<210> 847
<211> 480
<212> DNA
<213> Bovine

<400> 847
tggacgcact cgggaattgt agaaggacga ggctcagctc ttgccaggcc gacttgagac 60
atgtctgaca caagcgagag tggtagcggg ccaaccgctc ttcaggctga agcttcagaa 120
gaggaccctg gcttgaagat gcagaccgga ctgacaggga cccagaactt aaaggcctca 180
gaaacaccga aagggtcaaa gacaccagag ggctcaaagg ccacgaagat ctcaaagtct 240
gcaggcgtct caaaggccac tgaagctcag gaggtatctg ccaactcaggc ttcacctacc 300
actaaactga ccgataccca gtttctagca accaaaagaa gagtctggca gttgacacca 360
aatgcagcat actgaccctt aggctgtgaa atgcctgggt atgaaaccaa aaggtagttt 420
gggttgatac caaggtcata caaaaccctg gaaatgaatt tactgcttta gctttggcga 480

<210> 848
<211> 591
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(591)
<223> n is a, c, g, or t

<400> 848
gcacgaggag agaactgcca caggggattt gcacgggtaa gtgctatata tgtgaggtac 60
ctacatggct gaataaaacc aattgtatga aatcatttat gcaaaatgga aagggtgatt 120
ggggtgaaaa tctgaaggag agattgctcg ctgtaagcag ctcatctgcg atcccagcta 180
tgtgaaagat cgagaagaat aagtgggcca ggtgatcaga gtcattctgta ttctcagcca 240
cccccatcaa aacaccaatg acgcccactc ctgccagatc attattccac agaccaagt 300
caaccggaag tcagatatct acgtctgcat gatctcctct gcacacatgt ggccgaacag 360
gcagaacatc gccattgcca cacaaaggng gaaccaagag gccgaaagga aacaaacaac 420
ctgggctttt ggaccaatga acagaattcg tagatcagga cctcctgacc aaagatggga 480
aaaaagcaaa ctttttcgca ctttaagcaca tcctttaaac actggagaca tagaattata 540

agaagaggac cggntgctgg aaagaagaaa aagaaaaagg gaaaaaaga c 591

<210> 849
 <211> 427
 <212> DNA
 <213> Bovine

<400> 849
 gcacgagggc caagccctcc tccaggggat cttcccaatc cagggatcaa accaggtctc 60
 ctgcattgca ggcgttttct ttactggctg agcaggtggg agaaaataaa cacaaagatt 120
 actgaatggc cacataggct aagaaatgaa ataggtgtag tggggcggag cggggcataa 180
 aaatacacgg tgcccgggtt ttggtcactt agtggaggtg caacgggcag tctactgggca 240
 agatcctggg gtcacagcgg gaaagcgggg tccctgctct cactgactca cgttctaagg 300
 ggggcggggc ggggggcggg gagggcaggc tggaggagag agtttggggg accaaaacaa 360
 gcacgggcca gggctggcag gatgcctgcg aaaacggcgg ggtgcacacc gagctggggc 420
 cagatcg 427

<210> 850
 <211> 97
 <212> DNA
 <213> Bovine

<400> 850
 aacaaaccaa tcatttacia cgctttatcc cattgttgct tcgtcagaaa agtgaaacga 60
 acctcaciaa aattcaatat tataggagct ggagaag 97

<210> 851
 <211> 470
 <212> DNA
 <213> Bovine

<400> 851
 cgggtgctgtc cggcggggac caccatgtac cccggcatcg cggacaggat gcagaaagag 60
 atcactggcc tggcacccaa cacaatgaag attaagatca tcgcgcccc tgagcgcaag 120
 tactccgtgt gggattggcg ggtccattct ggctcgtct gccacctttc agcagatgtg 180
 gatcagcaag cagaagtacg atgagtcggg cccctccatt gttcaccgca aaagctttta 240
 agcggactgg tagctgcgtt acaccctttt ttttgacaaa acctaacttg cgcagaaaac 300
 gagatgagat tggatgtgtt tattgttttt tttttttttt tttttgtttt tttttttttg 360
 gtgcttgat tagatttaaa aatggacggg aaagagaaga acgggtggat gagattccca 420

aattttaagg gggcgggact gattgaatgg ttgttttttt ttatatattt 470

<210> 852
<211> 616
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(616)
<223> n is a, c, g, or t

<400> 852
gcacgaggtc gagttttttt tttttttttt ttttttcag gaggtcaaga aaaattttat 60
tgagaaacca gggacacagc cataagagag ggaagcacac aggactgcaa actaaaaccc 120
aatagccagc aagggccctt tgggccagga acactgcctc ctggggctct cacaatctcc 180
caccaacaga cacacaagac tgggcatcca gggagggggg agtgggctct ggggccaca 240
gagtgaagg atatatgatg cctcattatg agagacaggg aggggaggaa aatgggagag 300
agcccgccac tgcctaaaac accccctcct ctgagaccaa aaccagatgg aggacgaacc 360
acctatatat tgaaacagct gtggctctca tattatttgt tgccactgaa aagagcgtgc 420
tntgggggga tttccttttt tccccacgc cttatttgt cactgccgg gggtaaggca 480
ttcatctcct tcggcagggt tacttatata ttttttatt ggggggccag caaggtggtt 540
gcgccgcgcc ggcctccacc tcccgacatt tattgtatga aaatgataag aaaataaaaa 600
aaaaaaaaaa acacga 616

<210> 853
<211> 574
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(574)
<223> n is a, c, g, or t

<400> 853
gaaaaatccc caaaccctcc taaaactgta atcttatggg tgatacagta gcaggactta 60
gaggagcttg tctcagttag aataacctgt gttctctata gtatactgct ataagctggt 120
gttgagttac taagtttgtg ctgactctgc aacccccggg gactgcagca tgccagcctt 180
ccctgtattc actgtctctg ggaggctgct caaactcatg ttcaccaac tatcccatcc 240

tctgtaggaa ttatatatta tagaatggaa ttatatatat cacattgaaa agtttcaata	300
tgtaggtatt taaactatat tagtacttat atatatatta tataacctta ctaaaattct	360
gtagattttt aagatacttt taagaatata acttgactga gatttgaagt ttgcgggggg	420
ctttcttgga gattacangt acattatatt ttagtgagaa gacataaaaa agcctggtcc	480
caattttcca actgttaciaa gggatttctt ttccttttat tttttaatac tataaacct	540
aaagaagtgc tggatcttgg aggaggccaa aggg	574

<210> 854
 <211> 513
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(513)
 <223> n is a, c, g, or t

<400> 854	
ccgctgggag cgcagagcgg ctgtgggacg cggaactgca agagtgccgc ctggcctcgc	60
tccttccgtg tttgcttctc tgcggagatg cccagccggg tgagcgaccc gaggacggcg	120
ctgggcccgct ccctgctgag agctcgaccc tgcacaagga agagctcagc agcaagatta	180
aagaacaaaa agttgttggt gatgaacttt ctaacctgaa gaatacagga aagtgtatag	240
gcagcaacag aacagcaaca tattctttct tgcagaccga cagaaagctt tctgaaagca	300
aaaacattga tgagctgagg aagaatataa gaatataaac tcanagagaa caaatcaata	360
aaagccaact gatttacata catgtgtgca ttgtggcagt agctttctgt gagatttaca	420
gaattgaaga gattactggt atcttaacga gggccgatgt agaaaagtgt agttatgtac	480
tacagttatt ttgcctgcct actatagtgt gct	513

<210> 855
 <211> 554
 <212> DNA
 <213> Bovine

<400> 855	
gcacgaggca gaagcttccc gcagagcggg gcttgacgt tcttcacaaa ataattgatg	60
gcatttgtgg ccgaacttat cctctctacc aagattatca cagtgtttgg gattcaacag	120
aatggatgca tgttttagaa gacattacca cctttttcaa agctgtagtt ggtaaaaatt	180
tatctgatga agagatatct caacagttga atcaggtgaa ttcattctcat caagaagcta	240

tcatgaaatg cttaaaaagt aggaaagatg aaatcaagaa gactctgttg ggagaaaata	300
gtgatatttc ctctgcacga ctacgggatt ttgattgtca gataaagctt gcctttctat	360
gacagattgc ttcattacaa tgcactttta accttttctg atgtaaaaaa aatgggaagg	420
aagcctatct gttgaagaga aagagaacgc acagctatta atcctggagc gctatagggg	480
gctgcgctaa aaacgaaaga gatacacatt caattcacgg cacgagccag aagaacaggt	540
ccgaaacgat gcc	554

<210> 856
 <211> 615
 <212> DNA
 <213> Bovine

<400> 856	
gcacgaggct tttgaagatt cttcgttgtc aagccgcaa atggagagtg cgatcgcaga	60
aggggtgctt ctctgttcag tgcttcttcg ggcggaggag gaagtagggg tgcacctcag	120
cactatccca agactgctgg caacagcgag gtcctgggga aaacccagg gcaaaacgct	180
cagaaatgga ttctgcacg aagcactaga cgagatgaca actccgcagc aaacaactcc	240
gcaagtga aaacgaca tgatgcaatc ttcaggaaag taagagcata ttaacaagc	300
ttactcctga gaagtttgac aagctatgcc tgagctctc atgtgggtgt agagtctaaa	360
ctcatcttaa gggggcatac tgctgattgg ggacaagccc taaagagcaa agatagctac	420
ttatgctaac tatgctggat ggcagagagc acaaactttg aggccaaaac aaaggcaaca	480
gaaaaaacia accacatcaa cccctaata caatacaaaa attaaaacca acaagttag	540
ctataaaagg aaaaccccc ctgagagaga agaacatgca aaaaaagggg aaaaaactgg	600
aatgaagtgg ctttc	615

<210> 857
 <211> 492
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(492)
 <223> n is a, c, g, or t

<400> 857	
tgtgtcgtct tggaggtgac tcggcgtgat tgaatttgcg gcattcttcg attcactcac	60
aggtcaaaat gcagatcttc gtgaaaaccc tgaccggcaa gaccatcacc ctggaggtgg	120

agcccagtga caccatcgag aacgtgaagg ccaagatcca ggataaggaa ggcattcccc 180
 ctgaccagca gaggtcatc ttgcccggca agcagctgga agatgccgca ctctttctga 240
 ttacaacatc caaaaagagt cgaccctgca cctggtcctc cgtctgaggg tgggatgcag 300
 atttttngtg agaccctgac cggcaagacc atcaccctgg agtgagccca gngacaccat 360
 cgaaacgaga aagccaagat ccangataag aagcattccc cccgaccaca gagctcatct 420
 tgccggcagc agctggagat gacgcctctt tctgatacac atacaaaaga tcgacctgcc 480
 ctgctctccg ct 492

<210> 858
 <211> 580
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(580)
 <223> n is a, c, g, or t

<400> 858
 cagctgtgca tcgacatgtt ctcaagtgtcc tgggtaagac caaagaagct gccaaagatcc 60
 tctccaataa tcccagcaag ggactggcca tggggattgc caaagcctgg gagctctacg 120
 gctcagccaa tgctcaggtg ctactgattg ctcaagagaa ggaaaggaac atatttgacc 180
 agcgtgccat agagaatgag ctactggcca ggaatatcca tgtaatccga cgaaggttcg 240
 aagatgtctc tgaaaagggg tctctagacc aagaccgaag actatttatg gacggccaag 300
 agattgctgt ggtttacttc cgggatggct acatngccag ccattacagc ctacagaact 360
 gggaagcacg cctgctccgg gagagtcattg tgctgtcaag gccccgattt gcccacaact 420
 ggccgggaca aaaagngcaa gcagactgac agatgggcgg ctggaacctt ctcccagcac 480
 ctgagctggg cccctccgc caccttgtgc cttatactaa ctggtgagaa ggacagcttc 540
 accagcctgt gtccatgttg gttaagctaa aaggggagga 580

<210> 859
<211> 347
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(347)
<223> n is a, c, g, or t

<400> 859
gcacggggtc gcctctctga gttatccagt tccatccttg tcgctgcggc gacacccgca 60
ttctccgtcg ccatgactga acagatgacc cttcgtggca ccctcaaggg ccacaacggc 120
tgggtgaccc agatcgctac cactccccag ttcccgga tgatattgtc cgcctctcga 180
gataagacca tcattatgtg gaagctgacc agagatgaga ccaactatgg tatccacag 240
cgtgctcttc ggngtcactc ccactttgtt agtgatgtgg tcatttctc agatggccaa 300
tttgccctct caagctcctg ggatggaacc cttcgctttt gggatct 347

<210> 860
<211> 484
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(484)
<223> n is a, c, g, or t

<400> 860
tgggtgctgct ggacggactg ggtccccctg gaccctctgg tatctctggc ccccctggcc 60
cccctgggtc tgctggtaaa gaagggcttc gtgggctcgt tggtgaccaa ggtccagttg 120
gtcgaagtgg agagacaggt gcctctggcc ctcttggtt tgttggtgag aagggtccct 180
ctggagagcc tggtagctgt gggcctcctg gaaccccagg tccacaaggc cttcttggtg 240
ctcctggttt tctgggtctc ccnagctcta taggtgagcg tgggtctacca agtgctcgtg 300
gatctgtggg tgaacctggc cccctcggca tccgcagccc acctggggcc cgcggtcccc 360
ctggtaagtt cggtaatctg gcgtcatggt gctcctgggt aagcggncgt gacgcaacct 420
gggatgacgg cccccagccg cgatggcaac ccgacacaag ggagcgggnt acccgcacgc 480
agtc 484

<210> 861
 <211> 480
 <212> DNA
 <213> Bovine

<400> 861
 cggtgctgcc ttgaatattc tggcacgatg gagcaagttc ggtgagcgcc ggcggcgccc 60
 aaattttaag aaacatatct aggtccgcgg tggcttgcac gtcttctggt gggtgcttag 120
 cccggagggc cggaatcca gatatggggc cgccgggtct tcagatactg aatgaagaat 180
 gctgaaacta tgtgaaacat gaaacaccgt atcacgatct tttttcatct tgctttttat 240
 attgtataac gttccgccga aagaaagggt gaatggatat cagggtcata gtcaatatcc 300
 ttgttcaca caccttttac ctgcgtcacc cttttatggt ttaaatatcc cacctcgatc 360
 aaccactaac tcttcttagg tttcttcaaa aaatctattc catatccgtt caggggtccg 420
 tgtactactt tcagtatttc aatttttaggt ccaaactcct acacaaggcc cccatcaata 480

<210> 862
 <211> 551
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(551)
 <223> n is a, c, g, or t

<400> 862
 gcacgaggat tataactagg ctcaaacata tctttattaa tcaaaggagg aatcattata 60
 atcaacacat ttttcccaac aagaaataag tttatttatt cctatagcat aaaaacccat 120
 gctttggaat tcagagaact cttanaaagc attttctgcc tcctgctggg tgtggaagca 180
 ttttctctgc aagaagttgt caggatgctt gaagaagggg gagntggtnt gggcagaggn 240
 caggggaata tggnggatga gggcaaactt tgtagcccta ttcatccaac ttttgaagta 300
 ttaattgtgc atgggtgggc agacgttggc atggaaaaga aatggcccct tcgttgacca 360
 attcagctgt aggcattgca gttttgatgc actcattgat ttgctgacat actctccatg 420
 taaggtttat cagattaaaa aacataagaa tagacagaca caaacaccaa aagacgngag 480
 ttttttgtca gntgggttgg aggggttgggt ttttcttac cacgacgcgt tgtgtgtttt 540
 aaacattttg c 551

<210> 863
 <211> 399
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(399)
 <223> n is a, c, g, or t

<400> 863
 gcacgagggtg atggtgcaat actcttagct gccatagaac tgaattgtgg tgcagcttgg 60
 gagtgggcag tctatgcata cgacccaagg cctgcaagca gttggtttgg gagctgactt 120
 gattcaagtc ggtgagaaag aacacaggct tcatctctgc cctcaccttc tgctcgccaa 180
 gagcagccct cagcgttaga accgttacag aggtattaaa acatgcagat ggctacctac 240
 gccctgtagt cctataaact gggttctgtt gaggtcactc tgtgccttaa agttagtcag 300
 ttgggacctt atctaaaaaa aaatagatag tttttttttt aanagaaaga ttttggtgct 360
 tttgttacta gagaccgatt ctccattttt tgggtggggg 399

<210> 864
 <211> 509
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(509)
 <223> n is a, c, g, or t

<400> 864
 gcacgagggt ggacagctgc atccccacgc tgggccttcc cccctgggaa tccaggtgct 60
 gggagccttc cctgggggttc cttgctcccc tgggcaactt gtagaatgat gatgggcctg 120
 tgacacaacc acacattgca ggtgctgtca ctttaaata gtgagttctt ttgattttta 180
 aacattttcc ataaatcctg gactaattca gatatcattt gattaattac ataagaatga 240
 catctttttg acctgaatgt ggtaaaagga ggtccatggg ctacaggggg ttaaaaatgg 300
 ttttacagat atcatttact ctttttgcac tttattatga aaatttggat agaaaaatga 360
 aagatagagc tcttgtcctg gaccactgcc aggattgggt attttgaagc acctcctgcc 420
 ccaaccctt gcgctgggga agagaaatta acacaaagaa gatttaaata agaaccana 480
 ggagaaagcc gatgggaaag aaaagcggc 509

<210> 865
 <211> 415
 <212> DNA
 <213> Bovine

<400> 865
 catgggagtt gacatccgcc acaacaagga ccgaaagggt cgacgcaagg agcccaagag 60
 ccaggacatt tacctgaggc tgttggtcaa gctgtatagg ttcctggcca gacgaaccaa 120
 ctccaccttc aatcagggtt tcctcaagag attgttcatg agccgcacca acaggccacc 180
 gctctctttt cccggatgat ccggaagatg aagcttcctg gccgggaggg caaaacagct 240
 gtggtcgtgg ggactataac cgatgatgtt cgtgtccagg gagtgcccca actgaagtgt 300
 gtgctttgcg agtgagcagc cgcgcccga gtcgcatcct caggccgggg ccagatcctc 360
 accttcgacc agctggccct gactccccca ggctggggcac tgtctctctc tgtcc 415

<210> 866
 <211> 469
 <212> DNA
 <213> Bovine

<400> 866
 gcacgagggt tttttttttt ttttttttca ttttgttttc catatattaa aaagcaacat 60
 agtacaaatg ctgtagttaa taaaaaggac tcaaatttta caaggaatta atttttataa 120
 acaagttcta caatgaaagg gaaacagcat cttgatacat aaaagtgttg ttaaacaaga 180
 tttaaaaatt tttaaactag aaaatgtttt agactaaatt ctttcaaaca aaaacaaaaa 240
 gcaacctgta caatctccat aataaaaatgg gtccctgtac acttggcctg gatacaatgt 300
 taaaattttc aaagtttgag tcagagaggc aggactttta aaagacattt ttagtaaaac 360
 attttaccat ttatccaact atgcatttat tttttgtttt tcagaaaagg ggattatatt 420
 aacactgttt ttactgttaa aaaaaacttt aggaaattta cttcccagag 469

<210> 867
 <211> 41
 <212> DNA
 <213> Bovine

<400> 867
 gcacgagggt tttttttttt tttttttttt tttttcttgc a 41

<210> 868
 <211> 490
 <212> DNA
 <213> Bovine

<400> 868
 gcacgagggg aggcccaggc ctgctggact tgggagtttc cagtgtttcc cctagcgcct 60
 gcgttggggg cgggcttaaa gacattgtaa ttagttgtcg acatgttgcg cttggtgagc 120
 tggaacatca atgggatacg gagccccttg caaggggtga gatgcgagga gcccagcagc 180
 tgcagcgcca tggctatggg gcgcattttg gacaagctgg atgcagacat cgtctgtctt 240
 caggagacca aagtgaccag ggatgtgctg acagagcccc tggctatcat tgagggtac 300
 aactcctatt tcagcttcag ccgtaaccgc agtggctatt ctggtgtagc cactttttgt 360
 aaggacagtg ctacccagc ggctgctgaa gaagcctgag tggcctgctt tccatcatat 420
 ggggaggggg tggttatgaa aatgaagact taccaagaga acttgagctt gataggaggg 480
 cgccctcta 490

<210> 869
 <211> 351
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(351)
 <223> n is a, c, g, or t

<400> 869
 cgggctacag gctcgaggat ggcgagtga cagatgtgga cgagtgtgag ctgggcacgc 60
 acaactgcca gcgggcgccg tgtgccacaa caccaagggc tccttttact gccaggctcg 120
 gcagcgtgc ctggaaggct tcctgcagga ccccgagggc aactgctggg acatcaatga 180
 gtgcacatct ctctccgagc cgtgtcggcc cggcttcagc tgcacaaaca cgggtgggctc 240
 ctacacgtgc cagcgggaatc cggggatctg tgggcgcggc taccacgcca gccaggacgg 300
 gaccaagtgt gtggacgtga acgagtggag acgggtgtgc accgctgncg c 351

<210> 870
 <211> 476
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(476)
 <223> n is a, c, g, or t

<400> 870
 gcacgagggg gtgtctttat cgctgtggaa tctccatgca ggttctcggg gtgccggggcg 60
 agtctatttc cgggcccgcg ctccggccccg gcccggcgac ctgttccagc ctctgcccgg 120
 ggtctgcggg gcgggaacgc catgccgtgg gctctattcc gaggccgaat ctggtagccc 180
 aaagatcaag aaacctactt ttatggatga ggaagtccca agcataactca tcaagatgac 240
 aggcttggat ttactgaaga ttttttagcc agcagtacaa gaaacgaaac caccaactac 300
 aagctatgac ccagcacagt ggaaagaagc tacagacagc gattgagcag ctaagtnaga 360
 ttaaaaatgc accaagttgg aagacgacac cataatgatg ttagtgaga tagatttgga 420
 ggaccgaaca gcaaatgtgt tatgatatat gacgatacaa tggaggttta tgtgga 476

<210> 871
 <211> 370
 <212> DNA
 <213> Bovine

<400> 871
 gcacgagggc catctttgca ttgttcccg tccggcttc cctgatcgcc gcagccacct 60
 ccgccgcgcg ccatctccgc cgccgcgggc tccggcagct ttaccgccag agtcctcgaa 120
 ctcccgcttt tcttctcagt cctttgcac ggatcaccgg agtgcccat catgtcagac 180
 gcggccgtgg acaccagctc cgagatcacc accaaggact taaaggagaa gaaggaaagt 240
 gtggaggagg cggagaatgg gagagaggca cctgcaaagt ggaatgctaa tgaggaaaat 300
 ggggagcagg aggcagacaa tgaggtagac gaagaaaaag agaagtggg agtagagaga 360
 gaggataaag 370

<210> 872
 <211> 492
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(492)
 <223> n is a, c, g, or t

<400> 872
 ggacgttcgg cttgtgagcg ggaacttctc ggtcgcgcac agagaaagaa cgatttaaaa 60
 atgggtgatg ttgagaaggg caagaagatt tttgttcaga agtgtgcccc gtgccatact 120
 gtggaaaagg gaggcaagca caagactggg ccaaacctcc atggtctgtt tggacgaaag 180
 acaggtcagg ctcttgatt ctcttacaca gatgccaata agaacaaagg tatcacctgg 240
 ggagaggaga cgctgatgga gtacttgag aatcccaaga agtacatccc tgggacaaag 300
 atgatctttg ctggctttag agaaaggaga gaggaagact gatagctttc tcaaaaaata 360
 ccaagagtat aggtggccct gcctatTTTT tatgatanaa ngctctatgat tttatgtgta 420
 catatttatt gactatatat atatcanata tgacgctgag gatatttttt gacgcctgtt 480
 taataaatgt tg 492

<210> 873
 <211> 473
 <212> DNA
 <213> Bovine

<400> 873
 gcacgaggaa gaatctctct ttagttgttt gtacggaggt gaaaaaaaca aaaagatcct 60
 tcaaaaatgg caatggtatc tgtattcctc aagcaggcct ggtttattga aaatgaagag 120
 caggaattca ttaaaagggg taaggatcca aaggggggtcc ctgggtcagc agtgagcccc 180
 tatccacgtt caatccatcc tcgggtgttg aggccttgca caaagcaatc accgttaagg 240
 gggggggaga agcaaccatc tttgaaattc tgacttaaaa aaacaatgcc caacgtcagc 300
 agaacaaagc ggcctatctg cagaagaaag aaagccċcg gaggaatttt gaaaaagacc 360
 ccctcggcac cttggggagt tgttgggggt tttgaaaacc cgcccagttg ttgccaaaac 420
 cccggccgcc tgagggcctg ggacgagaaa acctctgatg aaattgggct cca 473

<210> 874
 <211> 547
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(547)
 <223> n is a, c, g, or t

<400> 874
 gccgatttaa ctttacagta acagaataga cagcacaaca cagactctct caatacagat 60
 aaactcacac atactggaga ttatatataa tagatatata taaaaattat tttaatgcat 120
 tgtagtgtaa tatttatgcc tactatactg tataacacgt tattcaaaag ggatatgcca 180
 tttctgagac acgataacaa aaaaaaagtt tgaggaaatt attttgcttc tatttatagc 240
 tctgtcaaaa gtcagaagac tctaaatgct ttgcaaaaag gggttcacat ttgcttaaat 300
 gcttcatcac agtcacattt aatatagtga ctctaaacaa agaagaagca gcactgtcat 360
 cagaggcatg ataaacacaa tatganatgg gaatgtttta ttacctagta ttgggtgggt 420
 agtactgggtg gatttattgt gattgttttn tttgtttttc aattactgct ttgcctataa 480
 gcctttcaat taaaaaaaaa agtgcttcgt ttttagatga atctccaagg atccttttgt 540
 gttggtg 547

<210> 875
 <211> 417
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(417)
 <223> n is a, c, g, or t

<400> 875
 ctggtgttgg agccgaaaaa gctggtggtt ttgccccata ttatggagat gaaccgatag 60
 atttcaaaat caacaccgat gagattatga cctcactcaa atcagtcaat ggacaaatag 120
 aaagcctcat tagtctgat ggttcccgta aaaaccctgc acggaactgc agggacctga 180
 aattctgcca tcctgaactc cagagtggag attattgggt tgatcctaac caaggttgca 240
 aattggatgc tattaagtc tactgtaaca tggaaactgg ggaaacgtgc ctaagtgcc 300
 gtcctttgac tatcccacaa aaaactgnng gacagatttt ggtgctgaga agaaaagttt 360
 ggtttgaga atcctggggg gtgggttttag tttagtttgg catcctgaac ttccgaa 417

<210> 876
 <211> 189
 <212> DNA
 <213> Bovine

<400> 876
 gcacgaggcg agtttttttt tttttttttt tttagtatag aggtcctaga ataatttttg 60
 ggttttagggg taggagtagt aggggtagga tgtgtaatga tatgagtgcc ttttcccgtg 120
 taaaggatgg cgagatacta ttaatgtggt agggatattt ttcttggttg gttttaatta 180
 ccatgccta 189

<210> 877
 <211> 573
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(573)
 <223> n is a, c, g, or t

<400> 877
 ctcacatca acccccaaag ctgaagttct atttaaacta ttccctgaac actattaata 60
 tagttccata aatacaaaga gccttatcag tattaaattt atcaaaaatc ccaataactc 120
 aacacagaat ttgcacccta accaaatatt acaaacacca ctagctaaca taacacgccc 180
 atacacagac cacagaatga attacctacg caaggggtaa tgtacataac attaatgtaa 240
 taaagacata atatgtaat agtacattaa attatatgcc ccatgcatat aagcaagtac 300
 atgacctcta tagcagtaca taatacatat aattattgac tgtacatagt acattatgtc 360
 aaattcattc ttgatagtat atctattata tattccttac attagatcac gagcttatta 420
 catgccgcgn gaaaccacgc accgctagca gggatccctc tctcgctcgg gcccataacg 480
 gggggggcgt tctatgattt acagcattgg tcttcttagc cctctctcta aaggcctttt 540
 tctctaatag aaattgagac taggtaataag ctt 573

<210> 878
 <211> 590
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(590)
 <223> n is a, c, g, or t

<400> 878
 gcacgagggg tgagtgctaa gggttgatgc tggtngccccc tgggagcccc cggtaaagcca 60
 gggctgtccc cttggcgctt cataggaatg tcgctggtga ttacgaggtg cagcgtgtgt 120
 cttccaggac cctaaagggg gacagagggg gatgcctggt ccccaaaggg tgctggatgg 180
 gtggctcnnn tggcaaagat tggcgctcgt ggttctggac tgggtcccca ttcgggtccct 240
 cctggcgccc ccgctggtgc ccctgggtgg acaaggggtg aagactggtt ccttaacggg 300
 ccccaaccgg tccccactgg taggctcgtg gtggcccccg gttgaccgtt ggttgagccc 360
 tgggtccccc cgccccctgg tggttttcgc ttggcccccc ctggtgcttg atggccaacc 420
 ctggtgctta aaggcgaacc tggatgatgc ggtgctaaaa gagacgcttg tccccccggg 480
 ccctgctggg ccgcttgac ccccgcccc cattgttaag ttggtgcttc cggaccaaag 540
 ggcttggtgc agcgtgtcc ccctgtgctt atgttttcca gggctgttga 590

<210> 879
 <211> 785
 <212> DNA
 <213> Bovine

<400> 879
 tatcgtacgg acagaggggt tatatcacct tattccatat cccctctttg ggctgtgggt 60
 gatgcagtat catggatggg ggatggacgc cccaaggtt catttgcccg gtgcatctta 120
 ccttgggaca gactccggaa ccagttgggg aggaagtgtc ggtctttgga gaaagcggag 180
 aggatgttga cgtggttgcc tctatataaa aatgggggta tcaaccagg tgggtgggcc 240
 ctttcaataa tataaaaagc tcaatgtgct acggccggca tttttccatt actcctgtcc 300
 cccccagtc actcttgggc ttgtcttaga ctttatgatg ttgtccattt gtttttcttg 360
 ttgcttgga ggccccata ctttttttgt ccattaaata ttcctaaggg atcctcttgt 420
 ggaggtacgg ctcaaattgg gttggttgct cgtgtataag caacaaaggg ctgaagggcc 480
 aatttttctt tggaggggtg ggggctggtg tttaacacca aagaaattga ttggggggct 540
 ttctggtaac cccaacgaga ataaaaatgg ggtccccctt cgcacctttg ttttctttgg 600

cccgGCCCAA gactaaaaac aatttggcga gccacaggtc accacccggg cccgcacctt 660
 cgtttagggg gggaacactc ctctatact ccctcatata ttggtaacac attttctggg 720
 ctcttgttgt ctctgtcttg ctttgtgggt ttgcgggggg ggccccctc cactttcttg 780
 tctca 785

<210> 880
 <211> 667
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(667)
 <223> n is a, c, g, or t

<400> 880
 gcacgaggct acantcgggc cttgcaaata ccatcccccc ctngcctgga ctccgcagct 60
 gactgtatat tccccttgcn gccatgcggg gactgggctt atagatacgt cctgggtcaa 120
 cgctgttacg aggaggggac ggagggacaa acaacctccc tggaccgaag aaagcagaaa 180
 gcctgcgaag tgaaaaaaga tcccacgaga atgaagaaga cgcgctggag gctggcggac 240
 cattcctgtg gaaactgcct ggccccggga cttcgagaag aaactacaac atgttacatc 300
 ttccctgtgc actggcaggt cggggcagct ggatcagcac cccattgacg ggtacctgtc 360
 tcacaccgag ctggccccac tgcgcgcccc cttatcccc atgaaacact gcaccaccc 420
 gtttttgaga atgtgaccgg acacgacaga catcgctgg acgagggggc ggctgctggc 480
 atcaagaaaa gacatgacag gaccgggac aaaacagcct cctcgaaaac aatTTTTTTT 540
 tgactccctc tgttcccaag ttaaagtgga ggttgtggtt gctgggaagg gtaaataaaa 600
 aaaaaattaa gggtaaaaaa aattaacaaa caaattaata attaattagg ttttgtccat 660
 aaggccg 667

<210> 881
 <211> 431
 <212> DNA
 <213> Bovine

<400> 881
 cgccggcgtg cccacgtcca aaggaaagtc caggaggaaa aaggatttac gaatctcctg 60
 catgtccaag ccgccggcgc ccagccccac gctccccgg aacctggact cccgggcatt 120
 catcaccatt ggagacagga actttgaggt ggaggcggat gacctggtga ccatttcaga 180

gctgggccga ggtgcctatg ggggtggtgga gaaggtgcfg catgcccaga gtggcaccat 240
catggccgtg aagcgcatcc gggccaccgt gaactctcag agcagaagcg cctgctcatg 300
gacctagatg tcaacatgcf cacggtggac tgtttctaca ccgtcacctt ctatggggcc 360
ctctttaaag ggagacgggg ggatttggat ggagcttatg aaccgtcctg gacagttcta 420
tgaggtgct t 431

<210> 882
<211> 446
<212> DNA
<213> Bovine

<400> 882
gcacgagggc actttatgat actttttctg cttttgggaa cattctgtcc tgcaggtggt 60
gtgtgatgag aacggctcta agggttatgc ctttgtccac ttcgagacct aggaggctgc 120
cgacaaggcc atcgagaaga tgaacggcat gtcctcaat gaccgcaaag tgtttgtggg 180
cagattcaag tctcgaaaag agcgggaagc cgaacttga gccaaagcca aggaattcac 240
ccatgtttac atcaaaaact ttggggaaga ggttgatgat gagaatctga aagagctatt 300
tagcccagtt ggtaagacct tagtgtttag gtgaagagag atcccatggg gaaaccaagg 360
ctttggtttg tgagttacaa aaacacgaga tgccaaaagg ctggggaaga ataaaggaaa 420
aaaatactgg aaggcatttc gtgccg 446

<210> 883
<211> 193
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(193)
<223> n is a, c, g, or t

<400> 883
ctgcaggcct gtatgcttgg gagggcattg ggggggccag gagnngagga agggggacgc 60
acagaaggga tggaggatgg gttgggatgg gcatccacct gcaccttcgc atggnaacgt 120
ggagttcctg gagttgcaac ctctggggg agtttgggtg gataagcaca aggggaaggc 180
cctgggcggt gcc 193

<210> 884
 <211> 505
 <212> DNA
 <213> Bovine

<400> 884
 cggcagtagc agccatgaag gtcgagctgt gcagtttcag cgggtacaag atctaccag 60
 gacatgggag gcgctacgcc cggaccgacg ggaagggtttt ccagtttctt aacgcaaaat 120
 gtgagtcggc attcctttcc aagaggaatc ctcgtcagat caactggact gtcctctaca 180
 gaagaaaaca caaaaagga cagtcggaag aaaatcaaaa agaaagaact cgccgggcag 240
 tcaaattcca aaagggcata actggtgctt ctttgctgat atatggccag aagaatcaaa 300
 acctgaagta ggaagctcaa cgagaccagc tttagggctg ccaaggagca aaaagggttag 360
 cagcattaaa agacgcatgc tgtggaagct ccacaaagca gactaaciaa aaatggaacc 420
 gggagggtttt gtctgggtgt gaaaagctag tgcgatgatt ttgaaagaat gatttaataa 480
 aaaaaaaaaa cgaggggggc ggccc 505

<210> 885
 <211> 1221
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1221)
 <223> n is a, c, g, or t

<400> 885
 gnccttata aagtgnnnnt ccnaatannn ggggggtatta ctatttacia ntnttctcn 60
 ctataacnga agncgcnatc ncaancnggc ccttnancta atancntntc ttcctntan 120
 nntanattt cntgancctt aatnccgtac aannactnaa tacnctcttg ntacatccca 180
 cnntntatn nnantntntt cattacctca tntnctcta annnggtnt ttgaaatcta 240
 gctaattccn nntangagg ngnctgaant ttnntnana nntagacatc cgntntatan 300
 agaantnnan nntannctn natgangna tnnactcng tttnggttna tttaacgntn 360
 ntntntatn ttgnngcca ngatccatat nnnncnntg nngntcccn gnaattnann 420
 ccggnngcn gtngaanacn cngcnagana taagggggac anntnctga gtnntcaatn 480
 acangatncg atanaactta ctctnatag tngnnagtta nngcagtna tancnttaca 540
 annaannng gnntnnngnn tnncttatta ngaggggnag naatnnnnna gnctnaggan 600
 tnacnnnnn tnacntnat atnangctna nnaannnacn cngnanggn cnnananga 660

gttttanta	gtncanaggt	gnnnnnntaa	angnntatna	tgnggatnng	ncgagnnatn	720
gnantntacg	nnnnnttaga	tnnggggnaa	ggatngnnna	nttgattctn	aangggngnn	780
gaggcangng	tnannngtcn	ngnnncttct	nncnnnngan	gnggacagaa	tnnnngngtg	840
atagggnttc	nngntngntn	nagnnnnгаа	nancnngngn	ggnnannana	gtanntngng	900
angnnttcgn	cnnanngngn	aantcntaan	tnngnngann	nannnnctnt	nntnngtang	960
ngnngagcan	aganatcaga	ngnangcatn	tacnnncnag	gnggnntgag	angnanatan	1020
angttnacna	gntnnnacnc	accngagnnt	ttngtannca	ttnacnnnga	anntanntna	1080
tnnantgtna	ntganncnta	gngacngtta	gantangant	agtgtntang	tnanacnnag	1140
ncnngagagt	gnanagagag	atatnnnatg	nacnngtaga	aatntntnnt	cncngatat	1200
gtatacganc	tgcgcgagac	g				1221

<210> 886
 <211> 1341
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1341)
 <223> n is a, c, g, or t

<400> 886	
ttcancgcn	60
ttnnnnngna	
nncntnnntn	
nnggggggat	
tantantnca	
aancnacgcg	
cctatagnga	120
gtctntantg	
canangtggt	
ntnggannga	
gttntnnatt	
nctngcannn	
tnctctnnnn	180
cttattgna	
gngtcnnttc	
nnnataactn	
ttcntnacct	
gacgggctan	
tnanagaatn	240
gnaantcggn	
ntngtgntnn	
tatnagngca	
cananagggn	
ntgnganacg	
gtncnnggcc	300
nacnggaaga	
ctgntccatt	
gtnggtncta	
gcgggangnn	
ntnntagtnt	
ttttntgcn	360
nnagnntnan	
agngggngac	
nncnngnggn	
tcagctggct	
gatactcgcg	
nantcntgcn	420
nncncngatn	
ganngtnnnn	
aatntcncaa	
nataangtcg	
anntntcnat	
aangagcgnc	480
gnncnntaan	
ctggngcatc	
tncngtgngn	
cnaaattcgg	
tangtnntat	
ntctannnna	540
cgnggtnnng	
nicntanant	
tcnatacatn	
anntgannnn	
gncngaggga	
ncncgtttna	600
ngaactanaa	
agngacnggt	
ggattanngc	
cncnngtgta	
cttgcnagat	
ngtnncnnan	660
ncnnangann	
ngagnncct	
tgnnnnan	
cnnttatntn	
gnnnnnttcn	
nactgncgat	720
ntnnnnntcn	
gnnnnnnana	
antnnatggn	
cgnntgttat	
gtncnnnagg	

annatgntna gnnengatgg tnnctgggt gnantccgag nangatntcn aannggcttn 780
 gagngnnana tcgaactan tgacngacn agancngnn cntannccctc ncnaacann 840
 tgaannnnng ngatggncgc nnagannntn ncaantacna nnagctacga nnnenggtgt 900
 nnacnntnnn gtnnnncnnc nagctnatct nntctgnnng ngntcgtgac nnntganctn 960
 nncnnnagcn tancgantgc ntgtataatn agnnnatatn gttnttatnc natgncnggt 1020
 gcatcatgna ngagnngtc atnnntntn ncactatgtc tacgacttga nanccnannt 1080
 cagnncantn cgtatntccn nngangtcnc nncgtngnt ctcgatgaag ntcnngacgn 1140
 aactnnatgt nccnattnc ngatgacnn catngacntt atcgtgnnan nngctnacnn 1200
 tanatgacgn ncttctntgn antnccgtgc nngcgntcc tgnnnaccga cgtcctannn 1260
 acgncncang tatngcatca ggagnacang ttncnngttn ntacnctgg taagnnnngt 1320
 ntctnnctt cnnnttcnc n 1341

<210> 887
 <211> 1101
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1101)
 <223> n is a, c, g, or t

<400> 887
 gccctatang gagngtatn ncaggggagg ccgctctaga actagtggat cccccgggct 60
 gcaggcngag gtctccggcc ctgtntgcgc annangaggc tggganatgg gccccaggctc 120
 cccctgagcc aacctnccga gganganctt ananaggttn naccaagang ctggngcacn 180
 anatgaacca tcnnccant ntannantnc ttcanccgct gcgatnnnta nnnaaaacnn 240
 tanntnnann gnttntnta tattttancc cntanaanna tnnntatntn tnannntnta 300
 aaacntngnn ttnnntaatn nttntttgan annntnttc tcccctnnaa nnannnngt 360
 tntaaatnan acntatnna gngagnnna acatnaatnn nntgcngnt ttaanntntn 420
 nnntnaactt attgcataaa tngnnttnat atatnanatn tatncannaa acanacnna 480
 ttacnnntat tttatntnt tatannnnna ntnantctnc naattntgt naaanntcga 540
 nttcaaatta attatntnn tntngnngc nnatctannn gnnacntntt ntnanttatg 600
 ttnggantnn nnnanancnc tgtgtacccc taactnnnc nacaccnnc cncctnnct 660
 antcttctnt ttctatnacc gaatannact tctnacnnnn ctnttnactn accnnnncc 720

nnananantt annatcttna antncnccaa nnantcacnt nngntnantt tngctttaat	780
ataanntcga acnnnnncct aagtnaattt ntntctnct nttnacctag nntntannna	840
gaaananana tnatntntnt nantatanan nntnannaga ctaatatana tnaantcacc	900
atnnnnnnnaa ananananan nnttcnnanc ttcnacaaan atatntgna tnnnatctan	960
cttatgtncn ntaagaannn nngntacnat tnaagnntaa atntcanang natcnaaccn	1020
tntcnatcgc cataanaann cnnatannta tacantaatc tcantnantn cgtanantnn	1080
nnnatatnna nncntnngcn c	1101

<210> 888
 <211> 1389
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1389)
 <223> n is a, c, g, or t

<400> 888	
gngcctngtg ggnnttntnn anntatattn anttgnnnnn nntnnanntn cncntncttn	60
nntcttnnng nnncttccc ntntnttctt nnnnggnngn ntttngnagn nttnnatnt	120
tgagccnnnn ngatcgtatt acagtggcgg ccgctctana actagtggat cccccggnct	180
gcaggccgct tcgngatctg nggnccccgg tgcaaactg gccaaagtcca agaacgnacn	240
ccacgcacan ncagtcccgaa aaatggcnta naaacggcat caatanaccc cgatcacaat	300
gatatgaatc tnttaagggg gtanactcca ngttcctgag gaacatgcgc ttgccaaga	360
agcacaacat agaaggngcc tnnaananga tgcncgcnnn ccaatgncaa ggccatgagt	420
tgcaccgtgc tgangctgtc aangccctcc tcaaacccaa gganatcann cccaagatgc	480
caacaggtgg naantcgtaa gctcaaccna cttgcctaca ttccttacc caagcnggnn	540
aancgcgctc gttgcttcgn atctgccaaa ggggccttna tggctcntgn ccgggtccaa	600
aaagatncgt aggggtcaang gtcttttnaa cccattggnc caangccacc ttggcnnnct	660
tgctnnttn acaaacttgg ccaaaggggt tggtcnnntg cgccnccaan ccaaaaaggt	720
ttncgccgng angntaanag naacactttt attntgccc aangttgtgn gatngaccag	780
naaanngnaa cnttgggng taggaacccc cccttgnggc cctngcnttg nncntggcg	840
atngggngnn cntgantgt naccncctt ggtggcctan ttattgncgn ccaaaaattn	900

anatatctcg	cggcacctgg	ggtncntnnt	nnngnnttct	nttacaagta	nntnccccctt	960
ttgcggnnagg	tgggggggggt	gncncgcgta	tanacccttn	tnttctcgtc	ccttctttat	1020
attgtgangn	ctggntnata	nttctcaata	cntgnacntc	tncntctctg	gncttgcntn	1080
gganttcntn	nnacantaan	tctncnnann	tagtatTTTT	cnaanagagt	tactcgatac	1140
ttacaccctt	ngaaagntnn	cnggatttan	tgcnttcttn	ntcttttttn	tntctcannt	1200
acgtgnngnt	ancttntnnt	cngttgtcnc	tctccctctn	ncngnnttct	atgtannnnn	1260
nntngttntt	acgntatnnt	ctcatnacgt	nacntctctc	ngntatgctn	tngctnnatc	1320
ttatgntctc	ttctctcttc	ctntnnntna	tgtnattgta	tatntccgat	atccntacnn	1380
tggtctgcc						1389

<210> 889
 <211> 1389
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1389)
 <223> n is a, c, g, or t

<400> 889	
gngcctngtg	ggntttntnn
anntatattn	anttgnnnnn
nntnnanntn	cncntncttn
	60
nntcttnnng	nnncnttccc
ntntnttctt	nnnnggnngn
ntttngnagn	nttnnatnnt
	120
tgagccnnnn	ngatcgtatt
acagtggcgg	ccgctctana
actagtggat	cccccggnct
	180
gcaggccgct	tcgngatctg
nggnccccgg	tgcaaactatg
gccaagtcca	agaacgnacn
	240
ccacgcacan	ncagtcccgga
aaatggenta	naaacggcat
caatanaccc	cgatcacaat
	300
gatatgaatc	tnntaagggg
gtanactcca	ngttcctgag
gaacatgcgc	tttgccaaga
	360
agcacaacat	agaaggngcc
tnnaananga	tgcnrcgnnn
ccaatgncaa	ggccatgagt
	420
tgacaccgtg	ctangctgtc
aangccctcc	tcaaaccctaa
gganattcann	cccaagatgc
	480
caacaggtgg	naantcgtaa
gctcaaccna	cttgccctaca
ttccttacct	caagcngggn
	540
aancgcgctc	gttgcttcgn
atctgccaaa	ggggccttna
tggtctntgn	ccgggtccaa
	600
aaagatncgt	agggtcaang
gtcttttnaa	cccattggnc
caangccacc	ttggcnnnct
	660
tgccntnttn	acaaacttgg
ccaaaggggt	tggtcnnntg
cgccnccaan	ccaaaaaggt
	720
ttnccccgng	angntaanag
naacactttt	attnttgccc
aangttgtgn	gatngaccag
	780
naaanngnaa	cnttgggngg
taggaacccc	cccttggnngc
cctngcnttg	nnncntggcg
	840

atngggngnn cntgantgnt naccncnctt ggtggcctan ttattgncgn ccaaaaattn	900
anatatctcg cggcacctgg ggtncntnnt nnngnnttct nttacaagta nntncccctt	960
ttgcggnagg tgggggggggt gncncgcgta tanacccttn tnttctcgtc ccttctttat	1020
attgtgangn ctggntnata nttctcaata cntgnacntc tncntctctg gncttgcntn	1080
gganttcntn nnacantaan tctncnnann tagtattttt cnaanagagt tactcgatac	1140
ttacaccct ngaaagntnn cngatttan tgcnttcttn ntcttttttn tntctcannt	1200
acgtgnngnt ancttntnnt cngttgtcnc tctccctcnc ncngnnttct atgtannnnn	1260
nntngttntt acgntatnnt ctcacnacgt nactctctc ngntatgctn tngctnnatc	1320
ttatgntctc ttctctctc ctntnnntna tgnattgta tatntccgat atccntacnn	1380
tggctcgcc	1389

<210> 890
 <211> 979
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(979)
 <223> n is a, c, g, or t

<400> 890	
tnnnnnaaaa gctggagctc caccgcgggt ggcggccgct ctagaactag tggatcccc	60
gggctgcagg caggatcaag cgattcctgg ccaagaaaca aaagcagaat cgtcccatc	120
ctcaatggat tcgaatgaaa actggcaata aaatcaggta caactccaag agaagacatt	180
ggagaagaac caagctgggt ctataagaag caagctgggt ctatgagaag tggctctaac	240
atgtanacca cttttttaag cagccagatc acaatgaaaa catcactact gtaangctng	300
gcccatgatg ttatttcctc actatcagtc tgagaccag cattaaatat aaancgttgc	360
aaaaaaaaaa aaaaaaannn gggggggggc ccgggcccga attnccctt nnggggggnn	420
nttttaanan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	720

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	780
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	840
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	900
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	960
nnnnnnnnnnnn	nnnnnnnnnnnc					979

<210> 891
 <211> 987
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(987)
 <223> n is a, c, g, or t

<400> 891	
ttganannat tggactcccc gcggnnggcg ccgctctaga actagtggat cccccgggct	60
gcaggattcg gcacgaggcc gnncttgcct gctgcctgcc tgcctgccac tgagggttcc	120
cagcaccatg agggcctgga tcttctttct ctttgcctg gccgggaggg ctttggcagc	180
ccctcaacag gaagccttgc ctgatgagac agaagtgggt gaagaaaccg tggccgaggt	240
ggccgaggta cccgtgggag ccaaccccg ctaggtggaa gtaggagaat tcgatgatgg	300
tgccgaggaa accgaggagg aggtggtggc cgaaaacccn tgccagaacc accactgcaa	360
acacggcaag gtgtgtgaac tggacnanaa caacaccccc atgtgtgtgt gccaggaccc	420
caccagctgc cctgccccca tcggcaaagt ttganaaggt gtgcagcaac aacaacaana	480
ccttcaactn ttcttgccan tttttngcca ccaagtgtac actggagggc accaanaagg	540
gccacaaact ccacctggac tacatcgggc ctngcaaata catccccct ttgcttggac	600
tccgagctga ctgaattccc cttgcccatt cggnnactgg nttaaaaaac ntcnttgtcc	660
ccnnttttca naaaggggaa aagnaanaaa aactnttctn ncccgaaaan ccaaaacttt	720
gcgaagtgna aaaaatatcc ccccgaaaan ttgaaaaagc cccctngggg ggctgggcaa	780
actttttntg gggnaaattt ggtggccccg gggattttcn caccnncnc ccncaaang	840
tggacccttt ttcccttggg cncctgggna antttggggg caantttnga aancaanccc	900
ccccntttgg nnggggtccc tttttttnaa aaccngangg ttgggggnnaa annngncccc	960
cccccccttt ttttccttat nggnaat	987

<210> 892
 <211> 983
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(983)
 <223> n is a, c, g, or t

<400> 892
 ttnnnaaagc tggagctcca ccgcgggggc ggccgctcta gaactagtgg atcccccggg 60
 ctgcagggga atttggcttc gcgcgggtca aaagcnnnccn gaccaagact atgaanggtt 120
 ttgaatacat cttggccaag ctgnaagggtg aggcccntnc caaaaccctt gttgaaacag 180
 ccaaggaagc caagganaag gncaaggaga cggnnctgnc agntacagag aaggccangg 240
 accttgncag caatggcagc caccaagaag cagcagcagn ancannagtt cgtgtatcca 300
 gccangccc tgaagcatca nnctagcaga ctaccagctc caggccntgn gccccctnct 360
 cttgtacttt attattaaaa gccagcttnt atccctntcg actgtctggg tgntgggctg 420
 agggtangng ccctgtttgg cattttcagc atagccagct ggttaccat atttganccg 480
 ggcttactta cccctgcatn ggggtgntga ggacacatgc ncatngactt gccacggnc 540
 accgtatnca ngtnangcgg tcntgaatgc tatactgtnn gctacatgan gncanggan 600
 gtcgntnnnt cctctgatga gaacgaanta tttgaaacaa aaatnttgng ttgtnacang 660
 cncncaaann atactttgac ggaattcnat nngacccttt ntaacaatta aanccttnnn 720
 aacanaaccn ctnggggggg gggccggggg cccaaccccc cccnttatt ttgggggncc 780
 cccntnaan cannaaagnc ccntgggta aaaaaccctt ttgnccttat tgggntttcc 840
 ggggntttnt tnttaccctg ggncccccatt ntttantttn aaaaanaang ggggacccaa 900
 anccctnttt tttncangn cccctttttt ntttccccct tccnttttg ggggtttttn 960
 ttttnaacct tttttaaag cct 983

<210> 893
 <211> 930
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(930)
 <223> n is a, c, g, or t

<400> 893
 naaanctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc cccgggctgc 60
 aggggaatnt ggnctcgcgc ggggtcaaaag cnnngngacc aganactatg aanggnnttg 120
 aatncatctt ggccaagctg naaggtgagg cccntcccaa aacccttggt gaancagcca 180
 aggnngccan ngagaangcc anngagacng nnctgncagc tacngagaag gccagggacc 240
 ttgncagcna ggcagccacc aagaagcagc agcagnatca nnacgttcgt gtanccagcc 300
 cangccctga agcannaanc tagcagacta ccanctccag gcctgnggcc cccttctctt 360
 gnactttatt attaaaagcc anctnntatc cctatcnact gtctgggtgg tgnnctgang 420
 gtangngccc tgnttggcat tttcancnta gccaggtggg tacccatatt nganncgggc 480
 ttacttannc nngcatanng tggctgagga cnatgcnca nagacttgcn cacggccacn 540
 gtattnacgt naagcggnnn tgaangntat actgtnnngt acatgacgtn acggnncgac 600
 cgatanatcn tctgatgana acgganntat gttganacaa natntntnt gttncangcn 660
 cnaatanat actttgaccg aaattaatct ggaccctnt taccaattaa agccttgncc 720
 cccaccnctg gggggggggc cgggtgcnga accnccaacc attgtanttg gnncccnnta 780
 acccccctta naaantccca cttggttnaa acaccttttt ggnccctattt gggntttccg 840
 ggagttnttt tttaacctgg agccccatta ttagtttaaa taaaaanggg gacccgaaag 900
 ccttntttta caaagncct tttnttaac 930

<210> 894
 <211> 1197
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1197)
 <223> n is a, c, g, or t

<400> 894
 gnccttant aagtgnagtc nganttnana ggggagnccg nattananna actacgttgg 60

atcncccggg cntgcaggca attcggcacg agggcctntt gaagcncntg cagtactgag	120
cncnnaaacn gnatntatc actgtgccac ccangggccc gnacnntaga gannnnnanc	180
atntnncaat nggctaataaa cngctctttt nancgatctn ngattatttt acnnaatgnnc	240
aaacgctgtn tnagttanaa ntctnntgnt tnactattnt tnattacntn ttnnnngnct	300
nnccannnan aatgntncnt nnanatnanc ngngnnctnn nttanggnta ctncctcanat	360
nggcttnggt gtnnacntga actntgnnan tngnaatnnc nnagaccggt nngtatatt	420
annancatnt nngngnntan ctttctntca tcannannnt atccnnagcg nnttacntan	480
anatanaaat nnnaaagagn gntnnttcct ggnactnagt naagannnng agaancgng	540
atnanantga catgnnnnan ncnannang nntnangnan taagttnctg nnnnnngann	600
nngnngcnet acctnattna ntncgngng nncnacnan ntananagnt tngnannnnn	660
nnannntgtn ngntcnnnnc ttcnnaatgn nggcanangg anntactnnt nctannnang	720
nngggntgtn gnnchnnttt tctntngtnt taatnntagt cnntanaang anntatntna	780
nnntnaggtn ncnnnancng nannaaanta atgtactnnn naaaagncag aannnttgg	840
tnnnnatntn cncngtcgan tacctnctag ncnncanntt aannttgagg ngaggncntc	900
ngnnncnnag nctntcntt aagtngggtn tgnncgnggc ngmntantnn nntntnnntt	960
tatcntagtn gnnnagcnta nnggacannn angcngctnn tnanntangt cncgcnaatn	1020
nnannncgng anatagcnaa tntnttatan nntnnagcan cagcactann gnnctnnnat	1080
naaanntntt ttnantgctc nngnntntta gnaggtnnat nntnnnnagn attntnnchn	1140
annnttgtnn nnaggagcan nntgcntgtn tntgctngat atgntcactg tgaanch	1197

<210> 895
 <211> 1024
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1024)
 <223> n is a, c, g, or t

<400> 895	
ttnagccctt atagtgagtc gtattacagg ggcggccgct ctagaactag tggatcccc	60
gggctgcagg ctggaccca aggccccgt ggtgacaagg gtgagacagg cgaacagggc	120
gacagaggca ttaagggta cctgggttc tctggtctcc aggggtcccc cggccctccc	180
ggctctctg gtgagcaagg tccttcgga gcctctggtc ctgctgggtcc ccgcggtccc	240

cctggctctg ctggttctcc cggcaaagat ggactcaatg gtctcccagg ccccatcggt	300
ccccctgggc ctcgaggteg cactggtgat gctggtcctg ctggtcctcc cggcctcct	360
ggacccccctg gtcccccagg tcctcccagc ggcggctacg acttgagctt cctgccccag	420
ccacctcaag agaaggctca cgatgggtggc cgctactacc gggctgatga tgccaatgtg	480
gtccgtgacc gtgacctega ggtggacacc accctcaaga gcctgagcca gcanatcgag	540
aacatccgga gccctgaag gcagccgcaa gaaccccgcc cgcacctgcc gtgaccttaa	600
gatgtgccac tctgactgga anagcggaaa atactggatt gacccaacc aaggcttgaa	660
acctggatgc cattaaaggn nttntgcan catggnaaac cggngaaaa acctgtntnt	720
accccanttc anccancnt nggnccana aaaaaattgg ttttttnaan caaataancc	780
ccaaaggaaa aaaaaggcnc ttttgggtac ngggagaana acnatgacc cggnggnnat	840
tccattnttg aattttgggg gccanggggt ccnactnct cccnttgggg ccattcnann	900
tgattttcnn tggcctnnnn nncnncccg ngcctccca aaaanntttc ccttaccctc	960
nngaaaaaan nggggngncc tannttngnc cnannnaant tnggcnantn tannanaagg	1020
gcct	1024

<210> 896
 <211> 1020
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1020)
 <223> n is a, c, g, or t

<400> 896	
gccctatann gagntgtatt acagnggcgg ccgctctaga actagtggat cccccgggct	60
gcaggcgggg gtctccggcc ctgcaggcgc aagaggaggc gggatatggc cccagggtccc	120
cctgagccag cctcccagg aggagcttga gaggttgacc aagaagctgg tgcacgaaca	180
tgaaccaccc cgccnancgg gaagttcttt cggccgcttg gnggggttgc ggaaaaaac	240
gttgntcggg gaatgggncc ggggtngggg cctngantcg cgnttttcna cntggcttgt	300
tttggnggtt tnacnnncng gccnacttt cgggncnana tttttnccc cgggaaaagn	360
aggnccnntn gnaaaacng ttntgngncc ncctngnaaa anggttcnnn nnnntccnan	420
ccattctnga ncngantntn ggggctatng ggaaaggctn ncaaccnggc tngtttaact	480

ntgnggtgtg ccaccngggg ctctaaacgg atttctttna ctgtggatan ccacanaacc	540
acatatcact gtgatntgag gacanttcac anaganaant ttncgccccca aanatnctcn	600
aanatgtggg ngngggcnca tatatgtccc cnaaaacaca nngtncngag anagaacacc	660
tggcgaaaat tnatanttct tgtgatanca gnttttttnc aatntggngt gttacnaaaa	720
ngttggagna agaagttgtg gcttnttggt tcttctttct ttagngnga agaagttnan	780
nanggtntt aannncactg gtgntgagg accatttttt ttgctannaa aattcntnnn	840
tgncttntg ggaatannna nnaaggntct tnttannac ctnttggtc aaccnncgn	900
ggttgnttga attccnccaa gnnaggaacc cannctgggt ggccctcttt tttttantaa	960
aacaaacaat ncttctnnnn nanaaaacnn cttttttaan antttttnac caaaaagann	1020

<210> 897
 <211> 1038
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1038)
 <223> n is a, c, g, or t

<400> 897	
ttnagcctat agtgagtcgt attacagtgg cggccgctct agaactagtg gatcccccg	60
gctgcaggan ttaanagcga ggnatntncg nntgagngaa ngnananngc tgcctncng	120
tgtgngnna cnntaannan gtcctattta atttaggnnn ntntgtatct gggnnacnat	180
ntnnnttcta nnataagnga caccattaaa cgttcgttnt tnatatatac naanngnnt	240
ttttgccgtg gangnggggt ccnatntgnc cccccnnc cctngnncct ntttgcaa	300
cntccctngt ancaannna attccnaaaa ngggnccaaa ncantngggg gncacaaaga	360
accaactngc ggtnncccc cgggtttccc cancccaggt tncaaaaatt ttaaaacntt	420
naatttgtgg gnaaaaggna ttcnncattg gagannngcc ttaacanan gggcaggggc	480
ccaanncn acntntttt ntngngtgnt cacntntna aaanncanan acgntat	540
gtntcnaaa ggnggggana aaaaanccnc ccngngana tgnaactct tttncgggg	600
gcncctggaa anagncttng taattacnaa agaancngct cttnccntct natnnacann	660
tgnggnaacc gngggtan cn acattngnan taattttng cnnanttnaa aacctgtggg	720
nngngnggtt ngtgattna aacnacnaan ncntctttt ttngnggggg gggannaaaa	780
annaagacc cccnnatan ctnnngnaa aaaatnatta aaaaaagcnn antccactna	840

atgaatnaat tnaatccncc cttttttttt ngttngggaa ggctcccnt ttttncngnn	900
gnnttttntn nttttttttc nnnngnnng ntaanacacc cccngnttn ngngtntnn	960
ccncggnntt tntcccnnga ggggggttnn ttaaaccan nttnncaaaa tannttgggg	1020
nccccctccc cncggncc	1038

<210> 898
 <211> 1038
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1038)
 <223> n is a, c, g, or t

<400> 898	
ttnagcctat agtgagtcgt attacagtgg cggccgctct agaactagtg gatcccccg	60
gctgcaggan ttaanagcga ggnatntncc nntgagngaa ngnananngc tgcctnccg	120
tgtgngnnna cnntaannan gtcctattta atttaggnnn ntntgtatct gggnnacnat	180
ntnnnttcta nnataagnga caccattaaa cgttcgtnt tnatatatac naanngnct	240
ttttgccgtg gangnggggtt ccatntgnc cccccncc cctngnncct ntttgcaaac	300
cntccctngt ancnaannna attccnaaaa ngggncctaaa ncantngggg gncacaaaaga	360
accaactngc ggtnncccc cgggtttccc cancccaggt tncaaaaatt ttaaaacntt	420
naatttgtgg gnaaaaggna ttcnncattg gagannngcc tttaacanan gggcaggggc	480
ccaanncnnn acnttntttt ntnggntgnt cacntntnna aaanncanan acggntattt	540
gtnttcnaaa ggnggggana aaaaanccnc ccngnggana tgnaactct tttncgggg	600
gcncctggaa anagncttng taattacnaa agaancngct cttncctct natnnacann	660
tgnggnaacc gnggggtancn acattngnan taatttttng cnnanttnaa aacctgtggg	720
nngngngggt ngtggtatna aacnaccaa ncntctttt ttngnggggg gggannaaaa	780
annaagaccc ccnnnnatan ctnnnngnaa aaaatnatta aaaaaagcnn antccactna	840
atgaatnaat tnaatccncc cttttttttt ngttngggaa ggctcccnt ttttncngnn	900
gnnttttntn nttttttttc nnnngnnng ntaanacacc cccngnttn ngngtntnn	960
ccncggnntt tntcccnnga ggggggttnn ttaaaccan nttnncaaaa tannttgggg	1020
nccccctccc cncggncc	1038

<210> 899
 <211> 974
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(974)
 <223> n is a, c, g, or t

```

<400> 899
ttnancaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg      60
ggctgcagga atncggcncg aggntgaaag naggangctn ttgnncitnn tnngnacatt      120
tggngangcn cacagaatgg gcttacttat tntnnanaan ggantgaana anacnngcn      180
acacaaanca ctganctagc gttaacacgg aagaggcgct gattncagat tnnaagtcgg      240
gtnctgtgtg cgtccangna gtacacnttn gngcttgnga agggcttgna tgggtgctcac      300
ctnaaagcat nagggancca nnaanaangn natcagntgc tgagctnggt naatgtnant      360
ngaactnatt ntttcnnca cngaaattg ntctttggta tgccccnttg nantgantaa      420
gacctgttcn naaacttgnn ancttnatnc ataatgctga aggcagaaaa tctgttgagg      480
anaattgcan gagggaaggc tgctttgaaa gcgcctnatt cttttttcca aacactgctt      540
cattcnccaa tatnaatatg atcttaaaaa gtgtgnaaat gaatantgnt taangtccca      600
attgtgcttt tagagggggg cgnactgatg cttaaaaaat gaatttttgt tntaattaca      660
aanactggta ttatncnggg gaaaaagtgg gttcagggta cantctnggg gaaaaaccna      720
cccgtntgcc tnttnaancc taaaaattgc atnaaccttt atnttntgat tcaaaaaaaaa      780
agggcncnct tttggnnttt taaaagttnn tanaaacctt ggnccctttt aaggggtnaa      840
tgntttnaaa aatngggggg gttgttacca aacaaacaag ttnntttttg naagggnntt      900
tngggtttnc ccnttaaan ngggggggng gccnggggtt anccntcnaa aaaaanagnc      960
ctgggggttn ccnt                                     974
  
```

<210> 900
 <211> 931
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(931)
 <223> n is a, c, g, or t

<400> 900
 gancanagct ggactccacc gcggtggcgg ccgctctaga actagtggan ccccgggctg 60
 caggttcctc tccaggtctt tnntgntgnc agaggtgggg gtacggtcca aacccccatta 120
 ggtcactccg gcagcatgtg cttttagctt ctctcttgac taggagtcac atatcccttt 180
 gtcagctggc cttcagctcc ttngnttctg ngataaaacc ttggatatta cngnntttta 240
 tatttaccag agctattcga gcaanagtat tngaaccact agcctttgaa ataaaagnca 300
 gccccgttat taacagngca gatactgagt ccacttggat ttcttgacgc tttctttgca 360
 ctgcttttagg caaaaagngt tcatctggtt tttttcattt gacaccccag tttgctgcan 420
 ngacagaact tantgcctaa tctgtagagt tcntatatat ntatataaaa tatatttncc 480
 cncntccnc atatatatat gaagtttaat gaacnggnca agngaaacat cctaactgtc 540
 cttgggataa agganccagt tttgcaggca gccagcgcgg ggtttttntg tnggtctccc 600
 ancacatgcc cattcctttg cccgcccatt cctggtacac tcgangggag ctgggggacn 660
 ccactgggaa ngtttctgng gncctgtctt gaatgnggca ggctggaggg gnccccccca 720
 aagnganctg gggcgttttt tgttccccac cntttttaaa ctggttacng gcaggggtnc 780
 cgncncnccc cccccgtca aaaacaaaag tttaaagggg gaattttggg gggngnaccc 840
 tttaccccc gnaaaaaaaaa ncttggggaa anccnggaan nccggctttt aannaaattt 900
 tggngggcnt ttnaaaaaaaaa aannggcccc n 931

<210> 901
 <211> 972
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(972)
 <223> n is a, c, g, or t

<400> 901
 ttnnnnaaaa nctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg 60

ggctgcagga attcggcacg aggggcaggc cccggtgaag aagatccagg cctccaccat	120
ggccttcaag cagatggagc agatctccca gttcctgcaa gcagccgagc gctatggcat	180
caacaccact gacatcttcc agactgtgga cctctgggaa ggaaagaaca tggcctgtgt	240
gcagcggaca ctgatgaatc tgggcgggct ggcggtagcc cgggatgatg ggctcttctc	300
tggggatcct aactggtttc ccaagaaatc caaggagaac cctcgggtact tctcggacaa	360
ccaactgcag gagggcaaga atgtgattgg cttacagatg gggaccaacc gcggggcttc	420
tcaggcaggc atgaccggct acgggatgcc gcgccagatc ctctgatctg ctgtgcagcc	480
ctgcccctgc cctccgtgaa tggttaatat atatgtnggt tttttttttt ttaaaaatta	540
antttccttg anagccctng gangctttcg cncctcctt ttgcaagggt tggggcctgg	600
cctntttttt tccggggggg cccaacgggg gccnccccct ttgggntaaa naaaaaaatt	660
ccnttttnca aancccccaa aatnggacca acnggccttt ttttttcccc tggacanaaa	720
aanngggggg gacctttacc cccttttcgg aacnaaaact tttttttttt ttcntngggc	780
ccttttnccc ttttgaacc cttggggccc naaaaccatt tnnttaaggg ggggcaaaaa	840
aaggatnntt tnnttnaaag gntntttttc ccccccnaa aantttnncc tttncccccn	900
cagttngggg gggggggggg gcctttantt tttttggggg gggggncctt gggnccccc	960
ccccccccc nc	972

<210> 902
 <211> 889
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(889)
 <223> n is a, c, g, or t

<400> 902	
aaagctggag ctccccgcgg tggcgggcgc tctagaacta gtggatcccc cgggctgcag	60
gaattcggca cgaggattca ttcacaccaa caacacaact atcaataaac ctaggcatag	120
ccatccccct gtgagcagga gccgtaatta caggattccg caataaaact aaagcatcac	180
ttgcccattt cttaccacaa ggaacaccca ctccactaat cccaatacta gtaattattg	240
aaactatcag cttttttatt caacctatag ccctcgccgt gcggttaaca gctaacatca	300
ctgcaggaca cctattaatt cacctaactg gaggagctac acttgacta ataagcatta	360
gcactacaac agctctaatt acattcacca ttctaactct actaacaatt ctagagtttg	420

cagtagctat aatccaagcc tatgtattca ctctcctagt cagcctatat ctgcatgaca	480
acacataatg acacaccaaa ctcatgctta tcatatagta aaccaagcc cttgacctct	540
tacaggagct ttgtctgccc tcttaataac atccggccta accatgtgat ttcacttta	600
ctcaatgacc ctgctaataa ttggcctacc aacaaatata ctaaccaata taccaatgat	660
gacgagatgt tatccgagaa agcacctttc aagggcacca ttaccccagc tggtcacaaa	720
aggcctccgg tatggaanaa ttcttttatt atctccgaag tactattctt taccggattt	780
ttctgagctt tntacaanta agccttggcc cccancctg nactangngg gtgntggacc	840
cccaacaggc nttcnccct taaaccccc taaaagtccc actggttca	889

<210> 903
 <211> 1284
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1284)
 <223> n is a, c, g, or t

<400> 903	
nggnnggcnt ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncnncnnent ncnnnncn	60
nntccnnnc cncctctna nnggnnnna nnggttncn cnnnccttc agcctnctg	120
atcgattac agtggcgcc gctctagaac tagtggatcc cccgggctgc aggttgacat	180
ctatgaggac ttcccgatc tcaactcggg gctctgggga gctgaggaga ggaaatgggt	240
cccctaccgg gtgcccaaca ataacctgcc catccctgaa cgctacctct ctccagatgc	300
cacggtatcc acggaggtcc ggnccatcat tgcttgatg gagaagaacc cttcgtgct	360
gggggcaaac ctgaacggtg gcgagcggt tgtgtcctac ccctatgata tggccgcac	420
accagccag gagcagcttc tggctgcggc catggcagcc gcccggggag aggatgaaga	480
agaggtatct gaggcccagg agaccccaga ccacgccatc ttccgntggc tnggncatnt	540
ccttcgctc taccacctt accatgactg agccctacag gggaggatgc caancacang	600
acnacactgg tggcatgggc atcctcaat ggggccaant ggaaaanccc gcttctggga	660
actattanc gacnttcagc taccttgac acccaactgg cctggagcct cntccattct	720
tcactggggc tgtngatcaa nttcccnca tnganaagcc naggcttgcc tcccctaann	780
gttggnant aatcaatacn atagaaagnn cntnntgcct cancccttc atggnnaatc	840

cangtttntc tccgtggcca tcnanngggg gngnctnngn gaccatcacc tannccaaag	900
gggccatccc cctnaatanc ccnatnncc tccntttttt ccgngtgcag tnnngnatTT	960
anncccccg gggtcgggaa atcacntgc cctcngnt tnnnatatn ngccttgngc	1020
nnnatntcc ntnaaacnc cngtngann atntcnctgn cgggancngn ncnncntc	1080
ngtnangnt cttancnct ctctctnct gttcananan acntctgnt annnctgtg	1140
aantcanga nacnttgc nntncnctt cttnagcgc nannttnttg cacntntnn	1200
ggctcctctc tncncnat aggtgagac gctnctcnc gctgntnga tncagtgtgn	1260
ctcatgtnc atntgntcnc accc	1284

<210> 904
 <211> 998
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(998)
 <223> n is a, c, g, or t

<400> 904	
gcctatnngg agntgnatnn cngtggcggc cgctctagaa ctagtggatc ccccgggctg	60
caggaattcg gcacgaggat cgtatagagg aagttcctga acttccttg gtggtggaag	120
ataaagttga aggctacaag aagaccaagg aggctgtgtt gcttctgaag aaacttaagg	180
cctggaatga tatcaaaaag gtctatgcct ctacgcgaat gagagctggc aaaggcaaga	240
tgagaaaccg tcgccgtatc cagcgcaggg gacctgcat catctataat gaggacaatg	300
gtatcatcaa ggccttcaga aacatccctg gaattactct gcttaatgta agcaagctga	360
acattttgaa acttgctcct ggtggtcacn gtgggacgtt tctgcatttg gactgaaagt	420
gctttccgaa agttagatga gctatatggc acttggcgta aagcagcctc cctcaagagt	480
aactacaacc tccctatgca caagatgctc aatacagacc ttagcagaat cttgaaaagc	540
ccagaaatcc aaagagcact ccgagcacca cgcaagaaga ttcacgcag agtcctgaaa	600
gaanaatccc tgaaaaacct gaaaatcatg ttgaagctta atccatatgc aaagaccatg	660
cgcaggaccc cattttttcg anaggccagg gaatcacaaa atccgcatgg ataaggnaca	720
gcaaccctta aaagccaaat caaatcnnaa aggggttcag ggccaaaaaa ccttgngnt	780
nggnaaacia ngaaaaanaa aggtgttg cgaataaaaa acctgaaaa ancctngggg	840
ngggaaaaaa aaggntgcnn ggggaccaa aaaaccccc ctnttgaaaa naaacccca	900

naaaaaaaaa cccccctcan angaaaaaaaa angngnngtg gngnaaacct naaaattggt 960
 ttattccata aaaggcccaa tttttttggg gaacgnnn 998

<210> 905
 <211> 1536
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1536)
 <223> n is a, c, g, or t

<400> 905
 ctntnagang ggtggangtn tgcngtgngn cnaacnnnnt cgtntacngc cctcatcagg 60
 gagcccgat nacatgggcn ggccgcgccc caataactta gccggcttcc cccnccgttc 120
 attttcntgc aatgggtcan atcnntntaa atctgtncct ccgntntgcn tgcnactnnn 180
 ttanctgtgt ctctcgngn nnnccnctc acgngcanca gncnctcat gcanagggcg 240
 ganacnccn ctntancnc tagncnnngt nnnnctcccc cccnnnttcg ncnttcnccg 300
 natatatggn nttnagantt tttgnatncg nnggcncctc cagacacgc tttntntcaa 360
 ntncgntnct nngagacgn anccggntc gcngcnttaa tnnactagat ntncnnnnng 420
 ngncantctc nnanantcat ntncntctta tctnnangcg gnnngacnga atgnntcnaa 480
 tanattcact agcggacgnt ntngtaaata gactcnctnn annngnnntng nnttcctng 540
 tntcggcncn aannntnttn atctnngant nngtatactc catctcnntn nannattatn 600
 nttgnattnt ntgannnanc gncnnnancg cngnncntt ntgntnngtc ncancnct 660
 naccnccng nnacgancg gtnnctncta gtcannnacn ttnnactnnt caagtccgag 720
 ntacttnnat ngntccnct nannatntnn tncngntatn nnaantttgt catgcannta 780
 nngcctactn gcgcgannnn tcgnnnnntc nnncnngacc nntnctantg atcnttgngc 840
 nttnactact nnnngcctg ncgccnnntn tcngtnnctn tntntgtgt nncnccgacgt 900
 agncctctc gttntnnnt cgnngcaacn nctatncnt ngtgctncnc gncnaatnn 960
 tctgantnca tnanctcttc ntccatntc cccnccacc aggnnnccn nntctnctc 1020
 ntntttctt tatcttaaac ctnnncann acagngctcc ttctcnan ccccttcnt 1080
 tttctctcn cgnccntggn ctcnntnat cntctctcn tctatnctt tactttntn 1140
 ncgcnaatat gtggnggcgn cgtanctgng atannctac naactantct natctantc 1200

nnanagnaca ataactgctg atgtttgtan nncgctnnca ctncannctn antccggctn 1260
 tnnggnntc ncagngtntc gtcgttngan cantatgacn tataactacn actttatgct 1320
 nagtnacgan ngctnnnaga tcatganann ntagagtnan tanngnanac ntctnnann 1380
 nagtatacgn cncatcnncn tcnactngnt tnatgtntct nntctttngt gatnctantn 1440
 atncctntnt gannantcnc annngcgca tccctcgna nnacaagagn tattctcgtn 1500
 anatantgnc acncacctct nagnactna nanccg 1536

<210> 906
 <211> 950
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(950)
 <223> n is a, c, g, or t

<400> 906
 ttnagcctat ntggagntnn atnncngtgg cggccgctct agaactagtg gatccccgg 60
 gctgcaggcn cttcggatc tgcgggcccc ggtgcagaca tggccaagtc caaaaaccac 120
 accacnca accagtcccc aaantggc aaaancggn tnanaaanc cngntnnan 180
 cnntttant nttttanggg ggtaaacccc annttctga gnancntncc nttngccaaa 240
 aacccacca gaaagggc gaaaaaatn cagnccacca tngccanggc cttnatngcc 300
 tncntgaggt gtgtnaaggc ctttgagaag cccaaggaat atcaagcca atangccaac 360
 agtgtggcag cgnaactcn naacgnnttt tgctatatat ctctaccan actntggaaa 420
 agcgtctng ntctcatat canagggcnc ttnntctgtn gngnacann tcnnggcna 480
 ggntttancn naggnnnanc ncnntgggn gtgggtctcc atgtncnagg ggtgcccacg 540
 cccccaccaa atctggngag tagancnttt ctctgccagt gtgaagacaa anaagtantg 600
 gtgacacccc ctgggcttgt tntctgcgng gngctggnt cttgctgtgc tntttccaca 660
 aatnaattnt gnanaagaa aaaaaaaaaa aaaaaannnt tttggggggg ggggcccgcc 720
 ccnaatttcc cttttttggg ggggggttta nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
 nnnnnnnnnn nnnnnnnnnn nnnntnnnnn nnnnnnnnnn nnnnnnnnnn 950

```

<210> 907
<211> 950
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(950)
<223> n is a, c, g, or t

<400> 907
ttnagcctat ntggagntnn atnncngtgg cggccgctct agaactagtg gatcccccg 60
gctgcaggcn cttcgggtatc tgcggggcccc ggtgcagaca tggccaagtc caaaaaccac 120
accacncnca accagtcccc aaantggcnt aaaancggnn tnanaaancc cngntnnncan 180
cnntttnant nttttanggg ggtaaaccac annttcntga gnancntncc nttngccaaa 240
aaccaccacca gaaagggcnt gaaaaaaatn cagnccacca tngccanggc cttnatngcc 300
tncntgaggt gtgtnaaggc ctttgagaag cccaaggaat atcaagcca atangccaac 360
agtgtggcag cgcnaactcn naacgnnttt tgctatatat ctctcaccan actntggaaa 420
agcgtctctng ntctcatatc canagggcnc ttnntctgtn gngnacanng tcncnggcna 480
ggntttancn naggnnnanc ncnntgggn gtgggtctcc atgtncnagg ggtgcccacg 540
ccccaccaa atctgngag tagancnttt ctctgccagt gtgaagaca anaagtantg 600
gtgacacccc ctgggcttgt tntctgcgng gngctggnt cttgctgtgc tntttccaca 660
aatnaattnt gnanaagaa aaaaaaaaaa aaaaaannnt tttggggggg ggggcccgcc 720
ccnaatttcc cttttttggg ggggggttta nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnntnnnnn nnnnnnnnnn nnnnnnnncn 950

```

```

<210> 908
<211> 985
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(985)
<223> n is a, c, g, or t

<400> 908
tnnnacaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg 60

```

ggctgcaggt ttgtcaccac aacaggctgg tcataacaaa cacccttttc caacaaccta	120
gtagacgtct ctacacatgg acatcaccag atggctgata ccgagatcag attgattata	180
ttatttgtcg ccaaagatgg agaagctctg tacagtcagc aaaaacaaga cctggagctg	240
actgtggctc agatcataag ctcccttattg caaagttcag gcttaggttg aagaataatn	300
ccaaaancga ctcggccntt caangggatt aanganaagg atgccncaa tgannaanca	360
aantccgtnt taangcanat nganaannaa aaccnngagg ttaccgttcc ttcacctggg	420
tcntnagttc ttgggggggtc aggcntgant aaggaggngg gngaaccatn tcaggaagcg	480
aattntgtgt tcaggcagga tgagaaagac aancctcaag ctaatgtccc ctgagngggg	540
ccatcacttc tngtngggcn aggccttgaa aaagggggccc tngaaaagna aaanggatgg	600
caccanttaa gtntttgact tngnccttaa ncccctaaac nggtttgttt aaaanacagt	660
gggaanccgg gtttnggnaa ccttttccgg ttgggttatac nggnaaacia aacaaaantt	720
gttnttggtt agcttgnttt gnaaaanaaa ttttnggcaa attaaagnct tggacntttt	780
ttnaangggg gagntttttt ntttgggang ngnaangggg taactgggcc catgganntt	840
nattggggcc nggggntttt ttggatttta aaagccaatt tggccccttt ngggnttttn	900
ggatnaaaaa attagncccn ggggnaaanc cttttttttt cccggggggg tnccccnaaa	960
aaaaaaaaann ttnccaaang ggtnc	985

<210> 909
 <211> 993
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(993)
 <223> n is a, c, g, or t

<400> 909	
tttgancacc gctggagctc caccgcggtg gcggccgctc tagaactagt ggacccccgg	60
gctgcaggca ggancaagcg attccnggcc aagaaacaaa agcagaancg ncccatncct	120
caatggattc naatgaaaac tggcantaaa atcaggtaca actccaagag aagacattgg	180
anaagaacca agctgggtct ataagaagca agctgggtct atgagaagtg gtcttaacat	240
gtagaccact tttttaagca gccagatcac attgaaaaca tcaactnctgt attgcttggc	300
ccatgatgtt attncctcac tatcagtctg agaccagca ataaatataa aacgtgcaaa	360
aaaaaaaaaa aaaanttngg gggggggccc ggccccantt cccctttaag ggngnttttn	420

aaaaannnnn nncennnec t nnnnnncnnn nnnncnnnt nntntnnnt cenncnntnn	480
nnnnntctn ncntntnnnn nntcnecnnn nntctncnnn nnetcccnnn nnnccnnnt	540
nntntnnntt ctncnnnccn nnnntncnnn nnnctctctt nnnnnntann ttctnntctn	600
nnnnnctnnc ttntntnnnn ntntnnntnt ttntctnnc ctannnnna tectnannan	660
ctncnnnnnn ntctncnnn cncnccccn nctcnnnnn ttntccnnnn nntnctcnc	720
nnnnnnncn ncnctcccc ttnnnacnt ntnncnnn nccntnnnn ncnccccnn	780
cncnctnt nntntnnnn tctnctnnc nccntntnn tannccnt tntttnnnn	840
nccntntn ntctntnn nttccntnn nttctnnnn nctcnctn ctccnntn	900
cncctntnt tntntntn nnnctntn nnnntnttc nnnntntctt nnnntctc	960
nnntntnc cntntntt cccnnctnn ccn	993

<210> 910
 <211> 975
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(975)
 <223> n is a, c, g, or t

<400> 910	
ttnnnaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg	60
ggctgcagga attcggcacg aggctatttc agtggaaactg ctgatagcaa tatgtcttca	120
gggaatgccaa aaattgggca ccgtgcccc cagttcaaag caacagctgt tatgccagat	180
ggtcagttca aggatatcag cctagctgac tacaaaggaa aatatgttgt gttcttcttt	240
taccacttg acttcacctt tgtgtgcccc acggagatca ttgctttcag tgatagggca	300
gaagaattta agaaactcaa ctgccaagtg attggtgctt ctgtggattc tcacttctgt	360
cacctggcat ggatcaacac acccaagaaa caaggaggac tgggacctat gaacattccc	420
ttgatatcag accccaagcg caccattgct cangactatg gggctctaaa ggccgatgaa	480
ggcatctcat tcaggggcct ttttattatt gatgataaag gaatccttcg acagatcacc	540
ataaacgacc nttctgttg nccgctctgn ggatgaaacg ctgaaactag ttcangcctt	600
ncagtttact gacaaacatg gggaagtgtg ccagctggc ttggaagcct ggcagtgatc	660
ccattcaagc ctgatgtccc anaaaaacaa aagaatattt tttntaaaca naagtgancc	720

gcctcggncc gttttaangg nccaggcttg caataaggcg ggcctttnaa aaacaaaaac	780
ctnttttttg gccctaattt ttggggcntn aaaacnttg aatctttnc ctcnncnccc	840
cggaatgn gn ggggggaaca agaacnggcc cttttccttg canggggttg ggggaccccc	900
cancntttt tttccttttg gacgggaaan aacctgggcc cnggnccca acntggttgt	960
tttcctgggg anggg	975

<210> 911
 <211> 900
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(900)
 <223> n is a, c, g, or t

<400> 911	
aaanctggag ctccccgcgg tggcgggccgc tctagaacta gtggatcccc cgggctgcag	60
gaagcgatgg gcatctctcg ggacaactgg cacaagcgcc gcatacacac aagaagtacc	120
gggccttgag gctggacgtg gggaacttct cctggggctc ggagtgttgt acacgcaaga	180
caagaataat cgatgttgtc tataatgcat ccaacaacga actggtccgt accaagaccc	240
tggtgaagaa ctgtattgtg cttatcgaca gcacaccgta ccgacagtgg tacgagtccc	300
actatgcact gccctgggc cgcaagaagg gggccaagct gactcctgag gaggaagaga	360
ttttaaacia gaaacgatca aagaaaattc agaagaaata cgatgagagg aaaaagaacg	420
cgaaaatcag cagtcttcta gaggagcagt tccagcaggg caagcttctt gcatgcatcg	480
cttcaagacc aggccagtgt ggcccgagca gacggctatg tgctagaggg aaaagagctc	540
gagttctatc tgaggaagat caaggcccgg aaaggcaaat aaaccctctt ctctcctgtc	600
ttagctcatc taataaaggc gtttactgtt ctatgccaaa aaaaaaaaaa aaaaattngg	660
ggggggggccg ggncccccatt tcnccnttta ggggggnnnn tannnnnnnn nnnnnnnnnn	720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900

<210> 912
 <211> 1347
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1347)
 <223> n is a, c, g, or t

```

<400> 912
nnngccngcc ntttnntcn nnnnnnnnnn nncnnnnnnn nccnnnccan ncncttnttt      60
nctnttcnc tcnccnnggg nntatcatnn tgctnacnnn ttcagcctnt atgatcgat      120
acaatggcgg ccgctctana actagtggat cccccgggct gcaggnaatt cggcacgagg      180
catacntttt aaccaagcc ncgacnttct tagctgngcc tcagctctca cggcctctng      240
ctcacccatg aatggacccg ctttctctct gccgagtga cctccacca ttgtcttggg      300
ggcacatggg tggaacactt gatctgctcg agtctgcctt caacacacat tgcattctca      360
gattttctac tttntctgtc aaaactaaca ttcnccaagt cagactttgt gnnacntcta      420
tntcncggtc tncggcgtgc catgngnttc atccctannt ngtcctgaan atggacncat      480
gggaacttna cangcnctg nntgntnggc acangantgc ttttagnggc tannagnnt      540
cnatntgcnt ggntagcatn ngcttgctg aatnccctca nccccgana cntgctttat      600
anctgatttn tttnangggg cnnnggccnc ctnggancta gtnnataann cgntnnccgn      660
actgtctngn nntaccnnac cnttncntc tttnnntcnn gttcttnaat atccnnngcc      720
cctnncancc attttccnnt tacnttanen ntctgctatn cgcncnctt ntntctcttn      780
gctctccacc cctannttct nccntnccag ctntntctat ttatcttntn gtntnctntc      840
nntnccgctc nccgtaattn nnacanncca ctttctcgcc cntagtnnac tatancatac      900
ccctttctctn cntngactct gnnttcccc nttcnatntc ntgcctattn nttcntcgc      960
atnccgttcg gacgnatcgt atnntntttn tntcattctc tcaacctnta nncggacctg     1020
ttncnctatt ngnnnttneg nantnttctt ngtnctctct tctctactt ctannggcnt     1080
nttncctca ctattntct ctctcngcnn cgntggngag anattcctga cntntgngct      1140
catttatncc ntngccgct ngggnttna nctnactant ctcanaccgn ttcacttncc      1200
tanntntnt tnatntcggg cggncntct ntntantnac ctnnannacn anatgtccgc      1260
gcgtcacgnn nngtatctcc ntctctctct gtntgatctc ntngnatgn gttgtcnntc      1320
nttgtcagct tactccttct ttctccc      1347

```

<210> 913
 <211> 1578
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1578)
 <223> n is a, c, g, or t

<400> 913
 ccccccccn nctnnntann tantntttt tttttnnntn ctnnnnnnnt canctctnag 60
 negntctnnc tncncgnnnn tcctntttcn natnnnggnc gtgnnnntgt ntccccantt 120
 tnnttttgag ccnataatga gtcgtattac antgnangcc gttntanacc tggcggntnc 180
 ccctgggctc gctgnaatnc nngnncgagg ctnnctttct cntttnnact cannncaatn 240
 nttntctgng nacctcaann cnnccngcct cttattnncc cnagnntntg nngtgcttct 300
 ctcttngttg tnntgcgcnc gtcnngccgt ntccccctnn cctcctctnt tggctngetn 360
 actagannna ncnttntntn nctatgcnc ncnctnctn cnnnngnnn tctttctccc 420
 cngtnncct ttcngnntat nttntntct ccttantntc tgntactenc naencccccc 480
 ngagnntcc nccccnenc antntctnnt annttctgn tctcnncaac ctttcncct 540
 ctttcccaen agttccnntt ctnatctctt nntnnattcg tccttntct acnntttct 600
 nactgtcac tcttcantct nncgcttct ttntctntc ccatccnnan agcgctttta 660
 ccngtnntnn tectcancta tntctcgt cgctctcat gcttccttng tcnctcncc 720
 ntncnnaccn ccnccnacc ctnantttcn ctncctcnen ntgnnttna tnntctnct 780
 cntctattc ctctccttna cntctnagn nntcnccnn tcnctgtcac ccttcctc 840
 tncncntcc nttnctnctt nctnatctt tctntnctg acgctcctg ntgtcnnctt 900
 tnaccntnc gtccctctca tgtcnncnc anccncccc anntccntnc cntgactctc 960
 tntccccctn nccctgtgat cncntccta nntccntcn cnaccntn nactcnnc 1020
 nngnccnca ncttannnnn ntgtntctca ctcnntctt ttgaccact anncgtnnc 1080
 tcttctctc cncntcgt tacntttcn attatttct gncnacaac nnnctnccg 1140
 ntcttgngc ttacnngnc ctncacccc tntangtnnn gctgctcnnt tttancnct 1200
 tatctattcc tcnntnctc acctatngn ccnctctcn gatctcnag tgctctcct 1260
 cgtcnngcc ccttaagtgt tntctctnt tnnntctcca ctgntcgtc tnngtctct 1320
 ncgtctnta angtantncc tctcngtcc tntntatcg taccatgnt ctncngggg 1380

nacnncctta ctttacncca tcgcgncetaa tctctctctnc cntctnttcg nnnccngatn	1440
gncactcttc ttctgtgcta annncagcgc nngntacnca nantngtgnt ntctnctctc	1500
tnntctctacn cttcnccggn cncacnncat naatcgctcgt tccnnnnntc cngcagntga	1560
acnnatctct nnttacct	1578

<210> 914
 <211> 1480
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1480)
 <223> n is a, c, g, or t

<400> 914	
ctcgctcnna gaaangnggg gcgcncgnan cgctncacgn ccnctnctaa cncntactnn	60
tagccccnta tcagatgcag gntcgtcatt acagnggccn cncnncccta ncgcacgnna	120
nntgntatcc nntcntnnch ntnnacnagt nttnagggtc catntntntt cttttattcn	180
gtacttntat ctaancccca ncctactnga angngggccc ctacnnnncc gnannnnnch	240
caccgtnnch anctgntttt anacnccnnn nnnctntatg ttnaacnnng ncntntnann	300
nnchannnta ntngtnngnn aattnnnnna ttagtgnacc cannnnnngc annntacnaa	360
tantttnnnt nnnnnnnngn anttcnnngg cncccancnn nnttntntnt nttnncanchn	420
tnnnnggnan gaanngtgn antntntntt nctagantn cnngcnnt cctngaatat	480
ttnnnnnnca tgnnnnnngg nccacnnnca tcatatgnnt nncnnanggn ctantcattc	540
nnctcntgnn nannntgatn ganttnntn antncgattc ggngnggnag antnccattn	600
tnntanacgg nnnacgtng tcgcncgnac nttntntan tttnananng tntngcgngg	660
gnnctgncat atnantttct tnactgattg gtcntngccn tgnnnaacna ctgcntnctg	720
nantnnnnca nnnncnttgn cgngtatcan acttctctng nnatcnnnnn gatcnnaaac	780
ntgtattcaa tttnnnnntc antncnanga tagnncttct tangcnnnch nagnntcnn	840
ngnggtgncn gctntcnggg nngnnatgta nangnnntgn ncnatnnga ngagaccnag	900
ttctnntctc ntnaccact catncnttnc nattntctc ttccntcgt cnnnatctcn	960
cantnmatnt accaatnca gacctntnn ncacttttcc caacngacna naattgnttc	1020
ttgttcnata naanctnttn taancnaatc gaanancan nnnngtnant ntgttcagtn	1080

nttcatctca tatagnaatn tcannntnan nctttntntg ctgcnntcta ntgatnacga	1140
tcnacttnnc tgatnttact ngctgannag ttgtaagnngn nacaacnctg actntantac	1200
tctngnnatg gantnnntng tncncagant tgtagntagc gcctcnctgn naanactngn	1260
ctatnanaga nantgnagac aanncnaatg taganngtgn naacnctnct gacnactnna	1320
ctttacgtca nttntctgatn ctntnantgn cgtntcactg taganatgta nngtgnnnag	1380
agtgatacn tatctcagan angatantnn gngagnnacc nntntnatag aatagtgtnc	1440
tgtncnatna tantntncac tcttgtnca nancgtgncg	1480

<210> 915
 <211> 910
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(910)
 <223> n is a, c, g, or t

<400> 915	
ttnancaann ctggagctcc accgcggtgg cggcgcgtct agaactagtg gatcccccg	60
gctgcaggaa ttcggcacga ggtataatca aaagtgggtt aaaaaaagc tgggttaggg	120
cgnngtncn ccttgaaaan gttctnttna ncantggggn cntgngtntc nggggnagna	180
cctttttttt nccntangnn nccccantaa nngttingtnn ttataaaaaa aaaaaaaaaa	240
acnngggggg gggcccnngc ccnattccc cctnatgggn ngcnnttan nannnnnnnn	300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncnnn nnnnnnnnnn	360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	480
nnnnnnnnnn nnnnnnnnnn nnnnnnnncn nnnncnnnnn nnnnnnnnnn nnnnnnnnnn	540
nnnnnnncnn nnnnnnnnnn cnnnnnnnnn nnnnnnnnnn nnnnnncnnn nnnnnnnnt	600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	660
ncnnnnnnnc ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	720
ntnnnnnnnn nnnnnnnncn ncnnnnnnnn nnnnnnnnnn nnnncnnnnn nnnnnnnnnn	780
ncnnncnnnn nnnnccnnn nnnnnnnnnn nnnnnnnnnn nnnncnnnnn cnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnncnn	910

```

<210> 916
<211> 910
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(910)
<223> n is a, c, g, or t

<400> 916
ttnancaann ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60
gctgcaggaa ttcggcacga ggtataatca aaagtgggtt aaaaaaaagc tgggttaggg 120
cgngngtncn ccttgaaaan gttctnttna ncantggggn cntgngtntc nggggnagna 180
cctttttttt nccntangnn nccccantaa nngttngttn ttaaaaaaaaa aaaaaaaaaa 240
acnngggggg gggcccggc ccnattccc cctnatgggn gcnnnttan nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
ncnnnnnnnn ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
ntnnnnnnnn nnnnnnnnnn ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnccn 910

```

```

<210> 917
<211> 938
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(938)
<223> n is a, c, g, or t

<400> 917
caaaagctgg agctccaccg cggtggcggc cgctctagaa ctagtggatc gcccgggctg 60

```

caggctggtg attcttaatg atttgaagtc cattgcttgg gaggaaattc caccacacat	120
tcatgcttat aataagctgg ggatttttgt ttgtttttgc aaatgcttgc ccctactttg	180
caacgatttt ctgttcgtaa ttctgaagaa ccaagggtggg gagcaacaca actgatggaa	240
tagtggtata agtttatacc agaagcttaa tgacaagttt tatcaatcag aataatactt	300
ggttatggaa gtgactgatg ctaaataaat tctgagtatt ttttattaga taattttctca	360
catatagact taaactgtca gcttggtagt gtctattagt taaactttgt aaaatatata	420
tatattcttg tttttccatt ggatgcaaat tgaaagaaaa agatgtacca tttctctggt	480
gtatgttgga ttatgtagga aatgtttgtg aacaattcaa aaaaaaagat gaaaaaaatt	540
cctgnggatg ttttgngtag tatccttggc atttgnatta atagttaaag ttcacttcca	600
aataaaaactc ccataatgct aaaaaaaaaa aaaaaaaaaac ctngggggggg gccccgggcc	660
ccaattcccc ctnttggggg ggnttnnnnnn nnnnnnnnnnn nnnnnnnnnnn	720
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnc	938

<210> 918
 <211> 975
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(975)
 <223> n is a, c, g, or t

<400> 918	
ttgancacng ctggagctcc accgcggtgg cggccgctct agaactagtg gacccccggg	60
ctgcaggaat tcggcacgag ggaccgttat tgctctcttc ctatattgta aaagtgctct	120
tttttaaggt aagcatcagc cttgctgtct gtagatcttc tgagcaacac tatgtacact	180
gatacttggt tcatttagct ctagcagtac aatgattagt aatgtaaaag ttancctaag	240
gaagatagca tggatttgtc aacatatcaa gtagagtttt gtttataaag catatttgat	300
aatctaaaga gtgcagtata aatcctatat taaaaataag attaaacagg ttattattcc	360
atcccattta ctggtagact tcaggcaang gnatggtcac tccttttgga ctaaattata	420
gttgngatgg ggacttcata tttactgcag ttttgcctaa tctcaatcat tgcatttcct	480

tcaattaaat ttttctgaag ctacattgag gaatagcact ctgcatgggt tggttcttaa	540
actgaagtcc taaaccagga attttttggg ngggaaccan ggaagatnaa ccttggtgna	600
aatnaaaggt tgctanggan ttattcnctt aaaaaanaaa aaaaaggcct ttntgggggc	660
cnacctncca anaactgggt ngggccataa gaaaagggtt ttgggcantt ttaaacccta	720
accttggttn aanaagacc antttctcca taaggccngg tttttgnaa attttaaagg	780
atattttctt ttaaaaaaag ccaanggttt ttttctctna ggaaatgcc acccatttaa	840
ataaaaaccc ctgggctttt attgggnaaa aacatgcctt ttggaangnc ccnnggggct	900
tgggggcctt tgaanaacct ggccccnaaa accnnggggg ctggaaaccc cggaaccaa	960
aagggtcccc cttgc	975

<210> 919
 <211> 974
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(974)
 <223> n is a, c, g, or t

<400> 919	
tnnnnaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg	60
gctgcaggaa ttcggcacga ggcaaatca acaccgatga gattatgacc tcaactcaat	120
cagtcaatgg acaaatagaa agcctcatta gtctgatgg ttcccgtaaa aacctgcac	180
ggaactgcag ggacctgaaa ttctgccatc ctgaactcca gagtggagaa tattgggttg	240
atcctaacca aggttgcaaa ttggatgcta ttaaagtcta ctgtaacatg gaaactggg	300
gaaacgtgca taagtgccag tccttttgac tatccacag aaaaactggt ggacagattc	360
tggtgctgag aagaacatg tttggtttgg agaatccatg gagggtggtt ttcagtttag	420
ctatggcaat cctgaacttc ccgaanacct nctngatgnc cagctngcat ttcttcgact	480
tntnttcagn cnggccttn aaaacattac atatnactgn aagaatagca ttgcatacat	540
ggatcatgcc agngggaatg taaagaaagc cttgagctga tggggtcaaa tgaaggtgaa	600
ttcaaggctg aaggaaatag caaattcaca tacncagttc tngangatgg gtgcncaaaa	660
cacccttggg ggaaggggnn aaaaaaggnt tttccgtntt naaaaccccc angggcgga	720
naaatacctn ttggggaann tttggncccc cttttgaaat ttnggggggc cctggaaaaa	780

aaaaatttgg gggngggcca nttgggnccc tttttttgnt ttttttttna ancccaaann	840
tttttttcca aagntccccc naaaaaaggc tccccccccc ccnctnnnc ccnttttgg	900
gtttaaaact tgggcnncc ccntnccaag ggggnccnaa nttncngnt tttttnttn	960
ccnaaatttt ttng	974

<210> 920
 <211> 911
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(911)
 <223> n is a, c, g, or t

<400> 920	
aaanctggag ctccccgagg tggcgggcgc tctagaacta gtggatcccc cgggctgcag	60
gaattcggca cgaggattag gtcttatagg actggagggc agacagatgt tttaataatac	120
tctttcagcc cctgccacac tcanaggtgg aggagtcaca tgtgtcttat accgtaatgg	180
gtccctggca cctggcacag acccaggagg ctcatcatat acttatggga atgactgant	240
gaaggagaga gaccaggaag gaaatagttt atattttaca ttattagatt atcactgana	300
tgtttaacct ttccacaaat tanatgttta gagttgcaat ctaggcattt ttttctact	360
caagcagctg aaagattaag gataatcctt ttacagatat atgttgacac gtctctgtga	420
atatgaatta actatgtaaa tcttgattgc ctttcgtggg tgctcagttc tctctagaaa	480
agcagactta ngtagggctgc ttcattgaagc tttaggcagc tttcttttct ctcttttang	540
acacagtga tttacattatg cttaaattgaa attggcttcc taaantctgt ttacttgctg	600
ngtctcccg nnnnnntntg aaatnaann tcnngggggg gncgggncc ccattgcccc	660
nttttggggg gncnnnnan nnnnnnnnnn gnnnannccc nnnnngnccc cnttnnttn	720
ggnnnggggg gnnnaaaann annntttttt naaannnnnc nnnnncnnnn nggnnttnnn	780
nnnnncccc cnnnnnnnnn nccccnnnn nntnncccc nnnntncnc nnnnncnnnn	840
nnnnnnnnnn nnnancccc nnnnnnnnnn cccnttnna aannaaattg ggnttttttn	900
annnnnnccc c	911

<210> 921
 <211> 994
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(994)
 <223> n is a, c, g, or t

```

<400> 921
gcctatnngg agnngnatnn cagtggcggc cgctctagaa ctagtggatc ccccgggctg      60
cagggntgaa gtccgntgat taatgccaga tgtacaanac agnggttcat atttgnatgt      120
actgggagat gatcacaatt ancatttgtc accatacaca gagaagattt tcttgnnatg      180
actactttna ngatccactc tntnancaac tttcatataa gacatctgng ttacagtaac      240
aactgccag gtggtcactg acgtgaggtg tncctcatgt aacaccaatc gcccancctn      300
ttatcaggtt tacatattgg ctctgatgga tgtganagct ggaccataaa gctgagcacc      360
aaanaattga tgcttttgaa ctgtggtgga gaagactctt gagagtcctt tanactgcan      420
ggagatcana ccagtcnatc ctagaggaaa tnaacactan atattcatcg gaaggactga      480
tgctgaagct gaagctccag tatttnggcc acctgatatg aagagctgac tcattggaaa      540
anaccctgat gctgggaaag attgaaggca ggaggagaag gggatgacag atgatgatat      600
ggctggatgg catcccgact gaatggatag aagtttgagt aaactcttgg gagatggaca      660
gggaagcctg ggatgctgca atccatggga gtgcagggtc agacacgact gacaactgga      720
ctgactggag atttgagang ccgaatgggt gagttctggg gtgaagcant aacatcaacc      780
tgtccctact tgagttaagt agggtcctgg cttttcctaa atcaaccan tgggttccat      840
attganggan cctgnttagt ggtgcttagt tttctgncaa agngctntta ggaacatgcc      900
ttttttttgg ggngnnaaaa naanaaaaaa cncatttntt gtttttaaaa aannnnnnct      960
nnnntnnnnn tcnnnnnnnnn nnnnnnnnnn ncct                                994
  
```

<210> 922
 <211> 1178
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1178)
 <223> n is a, c, g, or t

<400> 922
 tgagnccnan agtgnggtcg tattacaang gagnccgctn tanaactagt ggatcccccg 60
 ggctgcagga attgggccccg aggcncnttt gatagnctnc nngnagtgcc naaangattg 120
 cgggcactng tcncananng annntnngna ganttagctg gtggaatncg atgaacngcg 180
 tcaggannnn gatctnctca cncgnnnta tcnggnntat gaactcgnnn naannntncc 240
 tttatcttnt tannantgcc tgacgngnnn nntcnnttng atntactgc nngaccacng 300
 ncanangtnc tntncgatn tnggancnn ctnccttttn cnnnnnannn ncannngngc 360
 nnnnnnagan angnggtgtc tnggannna gtcatgaan gannattna ncantntgt 420
 ntctttatac tgnntgtan atggncatta gtttngtnn atncacacn nangnctaca 480
 nnanngcgtc nanatnacan ncaagtnnag ctgnntntg cttnanatcn cttnagana 540
 antggctntn aacngntatn gnncantaga nnnctgnata atnngngntg gancnttcac 600
 natncntnc tannnacng tncctncatc cnaatngnn tagntnnac cntgnnncna 660
 acncnggtnc cnggagncc attanaaann cnnnggatc nactgantt cngntanaa 720
 cnantctacn ccntatgga ctntngtnt nngtncgn ntgtntnaan ncgcgngnnc 780
 anagcnnct ncttacatc nttntgtcn ntctnagacn cngntttccn tatgtntact 840
 ncatnacntn tnnattgtng nnannggttn ccctnggnac cntacnnct aacncatttg 900
 nnnntcanna ngnccttctt nntcngnan gatcnttttn cacgtgtan nctncanng 960
 tnnatgacga ggtctanaga acnacttttn ggccanncg tataccatca ctntntntnt 1020
 ngtantnggn nannaanten tnnctncnc cgntnttate tantattecn attcnacttt 1080
 tgcacttntn cncacnacgn tntgtntnn atacnnagcn antcngctn tntctannn 1140
 cgtacncng antnacntta ganncnntt nnnnnccg 1178

<210> 923
 <211> 1271
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1271)
 <223> n is a, c, g, or t

<400> 923
 ancangaggg ggnngttnc ccgncncccc ccnncnctnn gccctatagn gagtcgtatt 60
 ncagggggcgg ccgctctaga actagtggat cccccgggct gcaggcacnt agccttngag 120
 gcntntctna cgnttgggca ctnatnctgn cccgctncga gggnggccaa ttgttaatgt 180
 nacanactnc tctencannn tcccatcctn cttttnnccc tncntnctcg ancccnnnnt 240
 cgcnggtntn nngtnngatc tttcaggann accactggan cnnngcntt ctntntnant 300
 ttnnatncct nnnaggggtg cnnannntnn centttttnc nncnatnat ngcgnnncnn 360
 tnnatnanta nnttgntnn ncctcctncn acggnatnnn nnttctntg nnnccctnn 420
 gnngcgtgtg ngtnaccnn nnnantgnnc ngngcntttt nntntgntn aantnnngng 480
 gacnngctcc ctttacctnt ttnntntttc tntngtgnc tctnnntnn nntcnngga 540
 ntannnnaca ncnatnncn tatntntna ncctntcag gtattctacc tncctntcta 600
 ctanctcent cccccngent tctaaatnt ntgnttcnt nnacntntn ntctctntt 660
 ntngcnetg tannnnnctt nctcnntctc gnnctnnnc nngntntnn tanantaatn 720
 nnnnnctttg ttctctntct nccgtcncnn cmtnctecn cccattntt tttccccccc 780
 cccnaccnac tctcctttat cctctttttn ctgncctan tgttnaatng naccnctct 840
 nctncttcc centgtnag tcnncatcnn cctntatttn tntctnttn tttgctnnc 900
 tctgatttnc tancntatcc ctngtctcn cnnttcattn ancnnngaa tntcctctat 960
 taannacatn ncgntcttn nntccnnanc tcnagctngt ctattntngc anccnttnn 1020
 tcatcttntc acnnntcntn canactactn tcnnaaaaa ctcattntcn ccngcctnn 1080
 tntcttncnn cancagcnn tnnncnngtc attcgtgcct tganannntc tagtctatan 1140
 cttttctngt ctgggtcttg attcctttc ctnttgnta cttnttctcn ctgtcacact 1200
 catctntnt ntnntagtgt gcgncngna tnatnctnt cttngactn tcnnctnta 1260
 tgtatannnc n 1271

<210> 924
 <211> 1479
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1479)
 <223> n is a, c, g, or t

<400> 924
 gggggggggtg c n n t n n c c g n n a n t n t n n n t t n t n n n n t n n n n n c n c c c c c t c n n t c n t c 60
 n n t t a n n n n a t g g n n t g g n a n n a n t c n a t n t n a g g g n g g n g n n c n n n g n c c n n c c c n t t t 120
 g a a a c c n t n g g n c t g c n n a c a n g g c g g c c g c t c t a t a a c t a g n g g a t c c c c c g n n c t g c a 180
 g g g c t g n g n c a c g a g n t a a t t c c g g t t g a g t g n t g g g t g t g c a g c t g c a g n g g g a c a n n 240
 t g t a t n c a a g t g a g n n c t g g a t c c a a c g n t c n c g a g n t a t t g n g n g t c c g t a c n c t t a n c 300
 c a g a c n a g n c n n c a a g a n c n c n t a t t n c n t g n g c t t c a n a g g t g c t n c a a g g c c c g n n c g 360
 a g c c t g g c t c n t g g c n n t g g g g c a g n t g n n g a a a n t t c n g g a t n c c c c t a t a c n g g n t n a 420
 c t c n g g a n g g t g n n g n n n n n a t c g g n g t t g c t g a a n c t c t c a n n c c g a g n g t c c t a c c t t 480
 c t n t t a n c c t n t a a a c c c g c t t c t c n n g a c t t t c t t n t n t n t t n a n n c t a c c c c t t n g 540
 t g n n t t g c c n g g a n g n c n n a a a t t a n g a a t t g g t n c a a g g c a n g g c n c c a n n c n a a n n 600
 g n a g n n t c n g a g a c c g n n c c c c n g n t g g g n c n c n c n n g n a c a c a a n n g n g t a n c a t g n 660
 a a a n c c t n n g a n a a n a n n g n t t g a g n n g c c t t g g c c n g g g a n a c n t c c c t t n n t n c a n t a 720
 t n a n c n n t c t c n n n n a n n t t n n c n n n n a g n g a a a c t g t c n n t c t n n n c c n c n a a g n g g a 780
 c n n a t n n t g n n a c a n n n g g n a g g a g n t g n a a g a c n n n n t a g n a n n n c t t g n n g n a n n n c t 840
 a a g t n c n g c n n a n c t t g t g n c c t g t n n t n n a n g n t n n c c g t n t a c t t n n n n n g g a c g 900
 n c n c c g c n c c n n c t n n n t g c g n c n c t n t a g t a t n c c t n g g g g c n n g n t g t g c g a g g a n t t 960
 c c n a a n c a a n a t n n a t n g a g a n n n t n t t c c a n n t n g n t n t t t a c c t c n n t a g t n g t n t n t 1020
 c n t a t n a c g n n c c c n c g g a n t a t n n t t t g n n a g g t c n t n n n a t c c n a g g n n c t c c a c c c 1080
 t g t g g n a c c n c n t n n a t n n n n n g n n c t c c a g n c a a t g a g g n a t a n g g n t t n a t c c c c t t n 1140
 a n a n a t n t n t g t n t g a n g n t n n g t g n c c n c t a n g a t a n a t g n c t c c t c t a c n n c g a t a 1200
 t c n a n t n c a n n g t n t g t a c a t n t c n t n a a g g n a c a n a t a t a g g c g c t t t n t a c c a t c t 1260
 c n n a c t a n t t a n n n g c c a c t n g n g c g n n c t n t c t g c g n g c g c t c t c t a t n a t t g a c t a c g 1320
 c g g n t c n g a g t n g n g n a a a t c t c n a n c g c t n c a n t t a c g g t a g n c g g n a n a n g a n c g a a 1380

cngntctnng taggacgcgg gnttgatgta nngaaannta cacagacnnt tgcgggggaa 1440
 nntntgntcg ntcntntcnt acnaaacgct nanntggcg 1479

<210> 925
 <211> 1479
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1479)
 <223> n is a, c, g, or t

<400> 925
 ggggggggtn cnntnnccgn nantntnnnt tntnnnnntnn nnnnncccc ctenntcntc 60
 nnttannnna tggmntggna nnantcnatn tnagggnggn gnnnnngnc cnnccnttt 120
 gaaacctng gnetgcnnac anggcggccg ctctataact agnggatccc ccgnnctgca 180
 gggctgngnc acgagntaat tccggttgag tgntgggtgt gcagctgcag nggggacann 240
 tgtatncaag tgagnnctgg atccaacgnt cncgagntat tgnnggtccg tacncttanc 300
 cagacnagnc nncaagancn cntattncnt gngcttcana ggtgctncaa ggcccgnncg 360
 agcctggctc ntggcnntgg ggcagntggn gaaanttcng gatncccccta tacnggntna 420
 ctnggangg tgnngnnnnn atcgnggttg ctgaanctct cannccgagn gtcctacctt 480
 ctnttancct ntaaaccgc ttctcnnga cttcttntn tntttnannc tacccttng 540
 tgnnttgccn ggangncnaa aattangaat tggtncaagg canggcnc c annncnaann 600
 gnagnntcng agaccgnnc ccngntgggn cncncnngn acacaannng ngntancatgn 660
 aaancctng anaanangn ttgagnngcc ttggccnggg anacntccct tnntncanta 720
 tnancntct cnnnnantt nncnnnnagn gaaactgtcn ntctnnnccn cncaagnnga 780
 cnatnntgn nacannnggn aggagntgna agacnnnnta gnannncttg nngnannnct 840
 aagtncngcn nnancttggt ncctgtntn nnangntnnc cgtntacttn nnnnnggacg 900
 nncccgnc cncntnnctg gncnctntag tatnccctng ggcnnngtgt gcgaggantt 960
 ccnaancaan atnnatngag annntnttcc anntngntnt ttacctcnn agtngtntnt 1020
 cntatnacgn ncccncggan tatnntttgn naggtcntnn nnatccnagg nntccaccc 1080
 tgtggnacn cntnnatnnn nngnnctcca gncaatgagg natangntt natccccttn 1140
 ananatntnt gtntgangnt nngtgncnc tanngatana atgntcctc tacnncgata 1200
 tcnantncan ngntgtaca tnntcntnaa ggnacanata ttaggcgctt tntaccatct 1260

cnnactantt annngccact ngngcggnct ntctgcgngc gctctctatn attgactacg 1320
 cggntcngag tngngnaaat ctcnancgct ncanttacgg tagncggnan anngancgaa 1380
 cngntctngg taggacgcgg gnttgatgta nngaaannta cacagacnnt tgcgggggaa 1440
 nntntgntcg ntctntctnt acnaaacgct nanntggcg 1479

<210> 926
 <211> 1043
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1043)
 <223> n is a, c, g, or t

<400> 926
 naaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
 caggntggtg attcnaagcn nntnnncanc catagcncgg tgngaactca gcgcgacana 120
 ttcgtgctgt atatganact ggcagntcat tgaggtggag agaacaagag cttgcccccta 180
 ctttgcgnc naatatacgn tcnnnnnttct nnnnaaccan ngtnnnnanc nncncnacna 240
 atncaatgtc aggtnttaac cctnnnctga aggantactg ncatcantta tttattacan 300
 tcatgaatct gaaacgntat taaangaaaa gcctaataac nacncttctc tacaacnana 360
 aatcaccntn ggccatagcn aaaaaccnca ctgtattttg ncggctggaa tcttggttgg 420
 acattctctn antattctga caccncgnaa tncccathtt ttngggantc tttnagaaan 480
 ttattnttnn tatgnacaca ttcaagcagt tgggnacctt ccttcncgc accctnaaca 540
 cncacaacnt tcattccctt aggaaggcaa gacttnangg gaaccctttt ntttaaaaaa 600
 aagnactaag gnctcntttt gnattacnag gattgatncc tggcaaaagt tnccanccgt 660
 aacnnntttg gnngttnncc cccccncnc cccccgggn cccncaanc cnngtcccnt 720
 ttaaaggggg ggtnaaaann atttntttt ttntttntg gaaaaathtt gngggggccc 780
 anattttaag gtttttttg gngaaccnnc ttttncaaaa naccgnggc nttanaatt 840
 ttnggggggg ggttccngg ttttttanng gaccccttt ntngttaan ttnggggttt 900
 tcnaaaaaaaa naggaaatth tgggaagttt ccaaaaantg gaaggngga accccttgg 960
 aaggggtttt cccatttcta ggccnggaa aaacnctaaa acccgaaag ggtntananc 1020
 cngggttntt tggtnccccc cct 1043

<210> 927
 <211> 985
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(985)
 <223> n is a, c, g, or t

```

<400> 927
ttgancacag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg      60
ctgcaggtcg aggtcgagct tcactgcggc agcagcagag cggagtgtac attctgattt      120
gctacgttta tatatatctt gaagctaaat gtatatatga gtagtttgcc atgagataac      180
acagtgtaaa cagtagacac ccagaaattg tgactttctgt gttctctcca tttgagtatt      240
ttgtaatttt tttgaaatat ttgtggacat aaataaaaac aagctacact aaaccaaaaa      300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacnaaaaaa      360
aaaaaanaaa aaaaaaaaaa nnnnnnnnnt tngggggggg ggggnncccc ccccccccn      420
nnttttnggg gggggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      480
nnnnnnnnnn nnnnnnnccn nnnnnncnnn nnnnnnnnnn nnnnnnnnnn nncnnnnnnn      540
nnnnnnnnnn nnnnnnnnnn nnnnnnnntn nnnnnnnnnn nnnnnnnnnn cnnnnntnnn      600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncncntnnnn      660
ncnnnnnnnn nncnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      960
nnnnnnnnnn nnnnnnnnnn nnnnc                                           985
  
```

<210> 928
 <211> 1007
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1007)
 <223> n is a, c, g, or t

```

<400> 928
ttnancaaca atctggagct ccaccgcggt ggcggccgct ctagaactag tggatcccc 60
gggctgcagg tctnggncca ncttnnctgc gncngcngng gancggagtg nacattctga 120
ttingctacnt ttatatatat cnngaaccta aangnatata tnactggctt gccatgagan 180
nacacagtgt gaanagnaga cacccaaaaa ttgtgactcc tgcgccctct ccattcactg 240
tnatgccana ntnttganc tttnttgac ctaaataaan cnnanctact cttgtaacat 300
gcaaagaggt tggatcgagt ttaaagtact gtgctacccc ttttcacatc aaaagaatgg 360
acaactactg acaacgtaag gccgngcctg cctctcccgt gggggnggggn cggctgccan 420
ggaaggaaaa gaacttgcac gttggngaang gangaaactt ggtgggacca cagtgaatt 480
taaaagtaaa aagctgggcc cangnggtct gcnggctgna aaaagccant ttaatcaaaa 540
gncccttttt ttttggtggt caaaangaat ttaaattttg gaatggcnca cattttttcc 600
ccccttgcaa ataaaaaagg tttttaaaac ctggaaaaaa aaaaaaaaaa aaaaaaaat 660
ttgggggggg gggcccgggn cccccaantt cccctttt na agggggggnnn nntntnaa 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nncnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nncnnnnnnn nnnnnnnnnn nnnnnnnnnn nncnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnc 1007

```

```

<210> 929
<211> 924
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(924)
<223> n is a, c, g, or t

<400> 929
ttnnncaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg      60
ctgcaggaat tcggcacgag gattacttca catctgtctt agagaatact cagttaccac      120
ccaagatttg tagcatcaat taagttttct aattgctcac tgctctcctt agaacttatt      180
tggtttttaag gtagggagga aaaaccttgc acacttgaaa aacaaacagg ataggacatg      240
atccttgctc ctaagtacgg gcttgaggaa tgtgacagag gagtgcttca tgtctttcgc      300
tgtggagaag tcagtggtag tttgttgtat cccttgtttg ccttatactg gagttaggtc      360
tagaactgtg ccgtccaatc atgtgtctat agaggacttg aaacgtgagt agtctgaatt      420
gagccgtgag gtaaaagcag agaatacact tcagatttca aagacttact gtgacaaaga      480
gaacatagaa tacctcaata ataatttctt ttatgttgat tatatgctga cataatatatt      540
tgaataaatt ggattaaata aaatatatta aagttaaaaa aaattcctaa attctgttta      600
cttgctgn gn ctacangnnn ntntntgaaa ccctgntcgg ttncngnnnn nnnnncccn      660
tnccccctnn ngggggggccc nncnnnnnnn nnnnnnnnnn nnnnnncttn ngnccccctt      720
nnntttnggn ntgnnggggna nnnnaannan nnnnnntnnn nnnngnncnn nnnnnnnnnn      780
gnntntnnn nnnnnccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttn aaacnaaatt      900
gggntttttt nnnnnnnnnn nnnn                                           924

```

```

<210> 930
<211> 970
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(970)
<223> n is a, c, g, or t

<400> 930
gcctatctgg agctncaccg cngtggcggc cgctctagaa ctagtggatc ccccgggctg      60

```

caggaattcg gcacgaggtt tttttaaaaa attttattta aataatgttt tagtgtaaga	120
ttgttaccct tataggaatg gacaacgctt ccaagagtat gagccttaga tattttctcaa	180
gagtcaaagc aaagcagctt tttttaaaaa taaaaattgg aagcacaagc aagtggcact	240
ggcttaatgc tgtaaatgtt tctagaagtt tctaccttga gattatatac ctgattcata	300
ttaaaatacc tctaattagc actgttttat agagaacctg acttaattga ttatttttcgg	360
attttacatg ggccagttta tatgctgtta ttcacgctat tagttcgtgt agccacgtgt	420
tctttgtacc tttttagtgg ttggttttact ggggtttacat cttgatgggc taacactcta	480
gttggtttct ggggtgtttct catggggttag catttgtata aagaatctgg tccatgtaaa	540
tgcttttcat gtttttttcc tcaaattgtt aaaccactag ttgatgtatg gtattttctct	600
tcggttattt gactgtccac ttgctcaaca tattgcttct aaaacaaaca ataaagattc	660
ttttatttct taaggaaan nnnnnnnnnn nnnnnnnnnn nnnccnttgg gggggggggcc	720
ggggcccaat ttcccntttt angggggggn nnnnnaann nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	960
nnnnnnnnnc	970

<210> 931
 <211> 1320
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1320)
 <223> n is a, c, g, or t

<400> 931	
ttnagcgctn nnnngnanc nnnntnnnag ngattataca tnaaaacntc gtggannntt	60
ntgggctgaa ggcaatngcg gnatcaggga nacnnnnncc tctngttnnt nagttnantt	120
atgaccaaatt gggcancctt atctnnctat tcannatnnc acatnngnat caattnccat	180
cgananaatc attancgttn cacncanncc tgggcatgng nttnttcgag ancnnnacga	240
cgnnnccttt ctaacnngnn tgacntaatg nnanttntcn taacannnnnc cgannaagac	300
ctatttgcng cnnnagcntc cagnngcant tttntaantt ctacntttct aacnnatnnc	360
nnncctcggt agnnttcncc gcncataant gntaagncnt ntcgaccagn nngnatnagg	420

gnnnagcnan nggtntntn ctnnannnnn tataattann nncctctgtn tattaactta	480
nantancggn cnnagttnc nnaattcnn gtcnnnnngg gntnttancn gtnntcttna	540
tanattgttn canctnnnn agcngcntna nncnnnnnnc tnttgcccat gggnnacngc	600
ananaantna antcnnancc cngnncnatn aacannanna cangnatnt ncnnatgan	660
gnnnncatnn cgacnataaa tgannnnnnc tanngnttn cgtntttana ncatnnntat	720
acntacangc nntnagnann nantcggagt tgncaggna tctnanacnn nnacangnnn	780
anntngtatg acnnntcngt ctcnntagac nntannncan ntaggctctn ngnantcgt	840
annaacaann nggantntg nantntnna cnatantann nntgangnan tacntnnnta	900
taccanccaa nnncnantnt gannntctna gtncnnnga tgnntantna angactnta	960
acntgntnnn atgatgagtc ntcggtctnn ttacncngcc tananncnac tntnnncnt	1020
cgtgtcnnnn tnacncttgn cnnntganat annannccg acgnagtatg acgttncatc	1080
nnnatacttg tanacanacn cgangancta gnantangtc tntnagtnt ntcttnacnn	1140
ntntncatn aanantgnta ncgngncgcn nnatacgaac tcnnnctect nacnnntnt	1200
ntatangnac nnannngtg gcgangcnan ngttangnta tatcnaagtn tnttngngnt	1260
nnngncngnn tggcagngnc nctagnngta ngntcttgt cnntgnacgc acgnanntcg	1320

<210> 932
 <211> 992
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(992)
 <223> n is a, c, g, or t

<400> 932	
gccctatagn gagtngtatt acaggtggcg gccgctctag aactagtgga tccccgggc	60
tgcaggaatt cggcacgagg cttgcttctc tagggaagaa tccaaccgat gcgtacctgg	120
aagccatgat gaacgaggct ccagggccca tcaactttac catgttcctc accatgtttg	180
gggagaagct gaacggcaca gaccagaag acgtcatcag aaatgctttt gcctgctttg	240
atgaagaagc aactggcacc attcaggagg attacctgag agaactgctg accacaatgg	300
gagaccggtt tacagacgag gaagtggacg agctgtacag agaagcacct attgacaaaa	360
aggggaattt caattacatc gagttcactc gaatccttaa gcatggagcg aaagacaaag	420

atgactgaag gaacttgagc taaaactttc cagttacttt gtcttactct atactgnttc	480
ctanacattt cccccaccc cccataggcc tgttgcatgc aactttgatt cacagctttg	540
cctttttttt ttttttgggn nttttntttt aannctttct ncccntnnnn cttttttntn	600
tnanccncc cngnaaagg gggntatana antttttatt tttcntttgt aaaaanaaag	660
atttngntan attaaaaancc cncntntttt gnaaaccccn nnnnatnttt ttataaaaaa	720
anaaaaaaan ttnantttng gggggggccc ccncncccc ntattcccc tttttngggg	780
ggngcncctt nnaancncc ngtnactctn tctntttcca ccnctttggn tttnccttat	840
cncccntttt nttttnnntt ctgtcncng tntnccnant tctttctncc ntntgctcnt	900
ctganttata gtctnatntt ttentcttcg cntcttgnta nncnnnttc cntttcntcn	960
tnnntngcn tntantntna tncntngnn cg	992

<210> 933
 <211> 1056
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1056)
 <223> n is a, c, g, or t

<400> 933	
ttgaggcca tagngagtcg tattacagtg gcggccgctc tagaactagt ggatcccccg	60
ggctgcagg aatgganngc cnggncngtc tagntgnnt gtgnetgncc tcngncngng	120
ggnnngggg cgnacgnctt ggcaccctgg cctgtntnta tgcennctc gctcannncn	180
nnntnnncn ntnatgnttt ttataggaac antgantgct aatggcnant ncatattgac	240
atngatnnnn ctgggttnag nnangacgtt ccnannntnn tgannngtt ggcagtcgtn	300
ncnaccnna gactgannat tatggannat tatnanaaca aagannngca cattntcctt	360
cctaaaacaa tttcagatgt ccantttggt gaantcnang cgangtcaa cgnctcatna	420
gcgananant caccttattn nagacctact ntngaangc gaancntnnn anttatgtan	480
nnggtnnna gtgnagcn nnttgta ncntagntta ntgtannnga cctgnncnt	540
tcaaggngtn atggntcgan ttctgggnnn ccctganntn nntccntcn nttnattgga	600
aacagccttt nttntctggg ncaaagtnt nntagcctna taagcccatn cccttggnct	660
ctcttgtttt tcatnnctat gtaaaccctt tntttanna gattntnca tgnatgnccc	720
ttgcctgnct ngnttggcac ttncntttgt ntgtggntta aaatntattt ctcgaganta	780

cntngtcant nnnntggcct tnttangtnc tnnanaann cctttnttn nttntcntt	840
tatntntnn taantnttn tccngancct nncgaggagt nttnngcttt tttgtcnaca	900
nataatnncca ctcatggact nntttctcnn nacataccnc canncncant gtctttntna	960
anancatnna ttctctctct ganctngtan ngaaancggn gatgntcnct ncctattact	1020
ctatngttgt ttctgnnnnc cctcnnngt ttnnccg	1056

<210> 934
 <211> 1056
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1056)
 <223> n is a, c, g, or t

<400> 934	
ttgaggccca tagngagtcg tattacagtg gcggccgctc tagaactagt ggatcccccg	60
ggctgcaggc aatgganngc cnggncngtc tagntgnnt gtgncncc tcnngcnng	120
ggnnngggg cgnacnct ggcaccctgg cctgntnta tgcnnctc gtcannncn	180
nnntnnnn ntatgnttt ttataggaac antgantgct aatggcnant ncatattgac	240
atngatnnnn ctgggttnag nnangacgtt ccnannntnn tgannngtt ggcagcgtn	300
ncnaccnna gactgannat tatggannat tatnanaaca aagannngca catntcctt	360
cctaaaacaa tttcagatgt ccantttggt gaantcnang cgangctcaa cgnctcatna	420
gnganant caccttattn nagacctact ntngaangc gaancntnn anttatgtan	480
nnggtnnna gtgnagcnn nntgtanca nctagntta ntgtannga cctgncct	540
tcaaggngtn atggntcgan ttctggggnn cctganntn nntccnctn ntntattgga	600
aacagccttt ntntctggg ncaaagtnt nntagcctna taagcccatn ccctgggct	660
ctctgtttt tcatnctat gtaaaccctt tntttanna gattntnca tgnatgnccc	720
ttgcctgnt ngnttggcac ttntnttgt ntgtgntta aaatntatt ctcgaganta	780
cntngtcant nnnntggcct tnttangtnc tnnanaann cctttnttn nttntcntt	840
tatntntnn taantnttn tccngancct nncgaggagt nttnngcttt tttgtcnaca	900
nataatnncca ctcatggact nntttctcnn nacataccnc canncncant gtctttntna	960
anancatnna ttctctctct ganctngtan ngaaancggn gatgntcnct ncctattact	1020

ctatngttgt ttctgnnnnc ccctcnnngt ttncg

1056

<210> 935
<211> 983
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(983)
<223> n is a, c, g, or t

<400> 935
naaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
caggctcgagg tcgagcttca ctgcggcagc agcagagcgg agtgtacatt ctgatttgct 120
acgtttatat atatcttgaa gctaaatgta tatatgagta gtttgccatg agataacaca 180
gtgtaaacag tagacaccca gaaattgtna cttctgtgtt ctctccattt gagtattttg 240
taattttttt gaaanattng gggncntaaa taaaancann ctcccctaaa ccaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aannnnntnnn taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
caaataaaaa naaaaaaaga aaaaatnnnn nnnngggggg ggggncccc ccccnncnccn 420
cccnnnnggg ggggttnaaa aannnnnnnnn nnnnnnnnnn nannnnnnnn nnccntnnnn 480
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnnn nnnnnnnnnn nnc 983

<210> 936
 <211> 969
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(969)
 <223> n is a, c, g, or t

```

<400> 936
gnanacagct ggagctccac cgcggtggcg gccgctctag aactagtgga tcccccgggc      60
tgcaggcacn agncggnctt ccttnngctg gnaaagtncc ntgtncgnac actgagtcct      120
gctctgtgta tnaagganac attgcctcng gctgaatgaa gcagggtttg tgaaaagtgc      180
tcagaaacca caagttccct gtgctttcac agnttttgag gcttttcctt ttcacactgg      240
agactttctt ctgttttnaa tggggctact gtgtggctca naaatggctg ctgtgatgaa      300
aatgctcatt tgtaggaaa aagaggtagc tacnttctca ttttgaaagg accatgagct      360
atttaaaaaa aaaaccnaan angnggtttt atttacntgn caggggancn ttngatcatg      420
ttcacatggt ttnaaaanaa ancanttttt ttttcctnct tttangggta aaaacaaaaa      480
aatTTTTntt tttntnntn aaagnccctt ntaggnaana aagggatgcn taaccggaan      540
ggtaggnac cccaagtta ttcctngtna aagaccata attttttgna accnggaanc      600
ggggaaaaca aaagtgcctc ccnaaaatnt aaaaaaagcc cnttaccttc ggatttgna      660
aatnnaaac ctttcttttt aaaaaaaacc cntttttttt taaaaaaaaa ccgggggggg      720
gccttaaaat tgggtnaaan gcccaaaaaa aaaaatttcc cgngggattt tttggganna      780
aaaaccatnn tttaaaaaacc tttgaacccc tggaaaattc cttntggcgc ggggggcaaa      840
atttcaaaaa acctttttta atccccaaaa ttttttgng nggggaaacc ntttgttttt      900
tcaaaaattt tcncccaggc nngggaaaac cccnnggggg tttntnnaa aaaaanangg      960
gnnccccct

```

<210> 937
 <211> 986
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(986)
 <223> n is a, c, g, or t

<400> 937
 ttgaanacat ntggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60
 gctgcaggtc tgcaaccatg tntgttttnc ccgatatggc tganattgac aagntcgnta 120
 agntgaaatt gaagaaaacg gaaacgcaag agaaaaatcc actgccttng aaagacacga 180
 ttgaacagga naagcaagca ggcgagtcgt aatgaagcgt gcgccgccag tatgcactgt 240
 acattccaca ngcattgcct tcttatttta cttcttttag ctgtttaact ttgtaagatg 300
 caaagagggt ggatcgagtt taaatgactg tgctaccctt tttcacatca aagaatggag 360
 aactactgac aacgtaggcc gcgcctgcct cttccatctg cttgtgtggc tggcagggaa 420
 ggaaaagaac ttgcatgttg gtgaaggaag aagctgggtg ggaccacagt naaatctaaa 480
 gtaaaaagct gggccaaggt gttctgcggg ctgtaaaatg caattttaatc agantgccat 540
 ttttttttgn tgggtcaaaag antttaatta ttggaatgca caattttttt nttatgcaaa 600
 taaaaagttt ttaaaacctg aaaaaaaaaa aaaaaaaaaa aantttnggg gggggggccc 660
 ncgganccca atttcnccn nntaagggg gggncnntn aaannnnnnn nnnnnnnnnn 720
 nnnnnnnnnn nnacnngnnn nccccnnnnn ccnnnnnnnc ccnnnnnnnc ncccnnctn 780
 nnnnnnnncn nnnnnnnncn nnnnnttnn nnnnnnnnnn ntnnnnnnnn cccccnncn 840
 nnnnnnnnnn nnnnntnnnn nnnnnnnnnn nnnnnnnnc nnnnnnnnnn nnnnnnnnnn 900
 nnnnnnnnnn nnnnnnnnnn nnnnntnnt nnnnnnnnnn nnnnnnnnnn nnnnnnnntn 960
 nnnnnnnngn nnnnnnnncn nnnncn 986

```

<210> 938
<211> 910
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(910)
<223> n is a, c, g, or t

<400> 938
nacaaagctg gagctccccc cggtggcggc cgctctagaa ctagtggatc ccccgggctg      60
caggtctgcn accatgnctg acnnnccngn tatggctgag attgagaagt tngataagnt      120
gnaattgaan aaaacggnaa cnnaagagaa aaatncactg ncttcgaaag aaacgantga      180
acaggagaag caagcaggcg agtcgtaatg aagcgtgcgc cgccagtatg cactgtacat      240
tccacaagca ttgccttctt attttacttc ttttagctgt tnaactttgt aagatgcaaa      300
gaggttggat cgagttttaa tgactgtgct accccttttc acatcaaaga atggagaact      360
actgacaacg taggccgcgc ctgcctctcc catctgcttg tgtggctggc agggaaggaa      420
aagaacttgc atgttggtga aggaggaagc tgggtgggac gacagtgaaa tctagagtaa      480
aaagctggtc caaggtgttc tgcgggctgt aaaatgcagt ttaatcagag tgccattttt      540
ttttgttggt caaatgattt taattattgg aatgcacaat ttttttatta tgcaaataaa      600
aagttttaa acctgaaaaa aaaaaaaaaa aaaaaaangg gggggggggg cccgngnccc      660
aantnnncct naannngggn ggntttnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      780
gnnnnnnnnn nnngnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      900
nnnnnnnnnn                                     910

```

```

<210> 939
<211> 1339
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(1339)
<223> n is a, c, g, or t

<400> 939
naagcncnt tnnntgtngg tcnnntngn aagggggnan taccactttt aanaanntag      60

```

gtnggcaatc cccngntct tgctctnctn ctgncccctc nactagtctt ttttttcccc	120
ccttctctng acccanttnc caatnnatta nngnggntcn anttttaana ttntttnanc	180
tatccctnaa nncnccgnc cntnctnanc ttctcnctnn ctnnnnnnnat ccanannncn	240
ancatgngag gatgtagnan nngnnnnnan ngaaannacc nataactttt cttntncccc	300
naggganana tngtgctnnn gtngaatan cnanncnngn annnntnaga nnnnnannnc	360
naccccgant gctnnngggg atnagntcnn ccngggatnc atnnngngtc ncgnaannct	420
atggagncnn aacnnnnaga nntannanna nncnnnnnnn ncncnngta agcgagncat	480
gtnnnatnt catngntnc tttagactcc aananngnnn ccaanacacn attnanncct	540
acntcnanna ncnnnnatnt ntgtngcnn ngngtnnnnn gngngnnata ggnattatac	600
nnnnnatnt gntaganaca naggtctgtg nntannnnna nnnnnngnnt gttcatntna	660
ntcgaangan antatntgc agnangnann nngagtnnn nngntnantg atnanccng	720
nncantatac ggattnannn ctatcanann cncngnnnn tcangnnnn tncngacncn	780
ggcnncaagn cccngnnnn attnnctnaa aananchaag nntcnnnann gganngggcg	840
aanantnnnn gcnncnaggt agngnnnctc nnnchanatt tcaatgtctg canngcccn	900
ccngngnac cagttgttca ngangtgcn ncngncngcn ntanaanaan ctntcnnnnc	960
gtgntnanta ngtgcaggnc gnatggtnt nnnnncgcat ntcgganant ngngcnaac	1020
agnntcgctg nnnngcncnc tgggtangga gcaatcnntc gnntnacata ncntnnntnn	1080
anagtancca agagcngna ttgtctnnnn ngncagtann anntgcgtca nntnngcngn	1140
gnnntntntc atncgtata tgtacnatgc ngaannncac cncnctntca nnnctgcntc	1200
nngtttnnt tatcatagcn ancgnccngc ganacnatch aaantantga gtncnannnc	1260
nagcnatgna tcnataacga gtntgnnann agantgtngn anngccnnan anctatcng	1320
anagnatana gtgntcgt	1339

<210> 940
 <211> 1224
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1224)
 <223> n is a, c, g, or t

<400> 940	
ttaanncntt tannggannn nttnannag ggnattacac tttnacnctt gtgntcccc	60

cgggctgcag gatccnannn tccgnaccag ttntnnngct cgagacatga gttnggacct	120
gagggcaccg ggatgacnnt gnatttncct tgcannatna gccatgaatt tctntccngg	180
gnatntntn nagcatgnng aannntnngt ctaaccgggn atnnntnnnc nnatnntant	240
gtcnnnatnc nngnncannn nnctnnngnn nnaannant ntcctaaact ctnnntncnn	300
ntgtnttgn gnnncnncga gganttatca anntggnnan cnagtnttca ttgncnnttt	360
gcnancnna ctgncngtat nnnagnnnna natcctnnaa ataanngatc nannaccann	420
catantcgta tntntntnan ncctnacna ancannccnn ntaattccnn nnnntcatnt	480
gtnnnncata tngncnacnn nnatcnntt ngancnnng atnnttcaac ntannntcat	540
tgtnttactg agnnaagann ngttnnacnt nantntatnn agnnaaagnn nnctctgann	600
nntgtcnntg tntgttngt tnaaannnct ncttntntan cncntcnctt angantcnta	660
ngntattatt nccaacntnt ttncggnttc gtananntan nattgganca tnactnttcg	720
tngtagannn aanatctacg tannnaattn anntnnngan cataaanncc ccgaccncac	780
gnannnnnncn nccnngnnng cantgtganc atanaatact gantnancnn nttantttnn	840
nnnataannc ntntgtcnan cactanacc nnnncnngac cncnaggat ctaatnatnn	900
antnnngtgn gnnctnnnga anantnnca gannctcnnt gnncaantnc nncncnnatt	960
accnncnnaa atcttntct natgcnatta aacntntgtg angtaannnn tancgtgtgc	1020
tcctcncnan nagannnca nnnntacnnc natctanatn agagatnaac nntntntaca	1080
ctncntatan tcctcctnnc naggtagaac atganntntc ctngntacnc acccnatggn	1140
ganttnggcc gnntancgat ctanagcan gnaagnanta atagcattna ctnncgactn	1200
antanntagt caacnanncn cccg	1224

<210> 941
 <211> 974
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(974)
 <223> n is a, c, g, or t

<400> 941	
gccctatntg gagctncanc ncnggtggcg gccgctctag aactagtgga tccccggggc	60
tgcaggttct accactgact caggccccga tcttcctctc cttcttcatt gccttgagag	120

aaatggccaa ccttcccgtg cccagcctgc agacaggtgg tctctgngg ttccaggatc	180
tcacactatc tgaccccatc tacgtattac ctctgggtgt cacagctaca atgtgggggtg	240
tccttgagtt angtgctgaa actggcatgc aaagtctga ccttcagtgg atgagaaatt	300
ttatcanact aatgcccctg gcagtcttgc ccataactat ccatttcccc acggcantgt	360
tnatgtactg gctctcctcc aacatgtttt ccctgggcca ggtggngctgt ctccgtattc	420
ctgctgtacg cactggactg aaaattcccc nacgtgttgt gcacgacca nacaagntan	480
ctccacnaga aggcttncta aagagcttaa aacaaggctg gangaatgcc gaaatggccc	540
atcagctaca ggaacggna acgacntatg cagaaaccac ttgggagcnc gctgccaggg	600
gttcgctacg acagacgttt gccacaacn cctctgngc agcattggaa agaaatgacc	660
ctcccaacac cccctaacag gcagcagcan gcagngggcn gnagtaanca aaagncanaa	720
gtcnaaagca acccctgncg ttgacaccgc tttggcttga ancctctggt ngccttgntt	780
cacaactngg gnnagggaaa cttcnttttt ttttttnana aaacttnanc cttttnaana	840
accgaatntn catggcnggg ggntnttggc gccagaacc ctnaaaaaa ctggnggggg	900
acattacttg atggttncat ntttaaaaaa atgggantgc tncntacaag aaantctttc	960
cncntggat nggc	974

<210> 942
 <211> 987
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(987)
 <223> n is a, c, g, or t

<400> 942	
ttnagcccta tagngagtcg tattacagtg gcggccgctc tagaactagt ggatcccccg	60
ggctngnagg attgaacggn ctgctcacc cggccgagtg tggngtgctg ctgcanctgg	120
ccaangatgc ngntgaagct ggagccaggg ctggctatng gggtcatcgg tnccacaca	180
ccccccanga acgctttgag gggctnacng ngctnaaggc cgcacanctg gcccgggctg	240
gggcggtggg nantcagggt gcccatctgc tntctggagg tnancaagcg ggtgcggagc	300
ctaaccacaag gcctantttc ccccgaccgg gccctgcatn tctccttaac ccacctgnng	360
tgccggagcg ccatataagg ggagcaggcg cactcgcagt gacctgagcc acccggtgca	420
cgccgacaac tgtgtgctgg atcctgacac cggggagtgc tggcgggagc cccanncta	480

cacctatnga gactacagtg gactcctcta ctcanctgatg acttccaang gcggggacct 540
gttctttcan ggagcccaac gccctcacag taacggcaca agttctcct cgctgcngcc 600
gnctcgtggc ttcagctnag gcgnggaana atnccacagg tgttgtnng cccgtnannc 660
cccggccggg ngcttgtncc cctggcaact tnnngcaaaa ccttgngncc ccttgancac 720
aaaggagcc angaagtngg atgggaagcc canannaat ttgcntgtnt ngggccccna 780
aaaaaggatg aaangganna aagattgttn tcagccangg gaaccccnnn tncaaaaaac 840
cccccaaccc gaangncttt ccttggttt ccaggaaaa aggttnggga aanccccct 900
nncnttttca aaaggaaaat ttttnaaggg ggcntggccc caaaaaactt ttgggggaat 960
ttggcncnt tnaatttgng ggngggg 987

<210> 943
<211> 987
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(987)
<223> n is a, c, g, or t

<400> 943
ttnagcccta tagngagtcg tattacagtg gcggccgctc tagaactagt ggatcccccg 60
ggctnagnag attgaacggn ctgctcacc cggccgagtg tggngtgctg ctgcanctgg 120
ccaangatgc ngntgaagct ggagccaggg ctggctatng gggcatcgg tncacacaca 180
ccccccanga acgctttgag gggctnacng ngctnaaggc cgcacantg gcccgggctg 240
ggcggtggg nantcaggt gcccatctgc tntctggagg tnancaagcg ggtgcggagc 300
ctaaccaag gcctantttc ccccgaccg gccctgcatn tctcctaac ccacctgng 360
tgccggagcg ccatataagg ggagcaggcg cactcgcag gacctgagcc acccggtgca 420
cgccgacaac tgtgtgctg atcctgacac cggggagtgc tggcgggagc cccanncta 480
cacctatnga gactacagtg gactcctcta ctcanctgatg acttccaang gcggggacct 540
gttctttcan ggagcccaac gccctcacag taacggcaca agttctcct cgctgcngcc 600
gnctcgtggc ttcagctnag gcgnggaana atnccacagg tgttgtnng cccgtnannc 660
cccggccggg ngcttgtncc cctggcaact tnnngcaaaa ccttgngncc ccttgancac 720
aaaggagcc angaagtngg atgggaagcc canannaat ttgcntgtnt ngggccccna 780

aaaaaggatg aaangganna aagattgttn tcagccangg gaaccccnnn tncaaaaaac	840
cccccaaccc gaangncttt cntgggttt ccaggaaaa aggttnggga aanccccct	900
nncnttttca aaaggaaaat ttttnaaggg ggcntggccc caaaaaactt ttgggggaat	960
ttggcncnnt tnaatttgng ggngggg	987

<210> 944
 <211> 972
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(972)
 <223> n is a, c, g, or t

<400> 944	
tnnnnaaaag ctggagctcc accgcggttg cgccgctct agaactagt gatccccgg	60
gctgcaggcg cctgccaaag caggagacac agattcgatc cttcatggg gaagatcccc	120
tggagaagga aatggcaacc cactccagta ttcttgtctg gagaatccca tggacagagg	180
agcctggcgg actacagtcc gtgggggtcac aagagtcaga taggacttaa caactaaaca	240
aaaacaacct atattagaag gttgccacta ttttttccaa gacagagcca gtcactcgcg	300
gancaacttt ngatgtggcc tgtgtgtcta accattcnta aatgcctgat ggctaacntg	360
tgaaancaga antttcccat tngttgaaa agccttttgg cncggccttt ccnatcttat	420
taaccaggca ccgttggttg gaaaaagnga ggcagaagc caaaaggggc ttgtggtgga	480
aagaatngaa gcttnatttn acgcccttct aacaancttt gggggaaggg tttaagggaa	540
ccttggnaat atgnagtggc aatnggnaan ggnaatncct tggaataatt gggnccccn	600
ttcntttttt tcttcccccc caaccaaaaa naccnttatt ctttttttta gggangcccc	660
cccttggnaa anaggagggn gtcaaaaaat gtaaanccgg aaccttctgg tttcaaaccn	720
aaaatttttc antttaantt ttnattnggc cnttngnga anccnaaaaa tttgcttgcc	780
tggncctggg aatgcttttt nccagnnnaa agcntttcnt tttaattttt ttnaaacncc	840
cttnccttaa nggccngggg gggggcncc ccccaaccn ttttttacc cttgcccttt	900
tgggggnaac aggnaaccaa aaacccccct tanggggttg gnnttttttg ttttcaaaaa	960
actnggggtg ga	972

<210> 945
 <211> 974
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(974)
 <223> n is a, c, g, or t

```

<400> 945
ttnancaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg      60
ctgcaggcgc ctgccaaagc nggagacaca gattcgatcc cttcatgggg aagatcccct      120
ggagaaggaa atggcaaccc actccagtat tcttgtctgg agaatcccat ggacagagga      180
gcctggcgga ctacagtccg tggggtcaca agagtcagat aggacttaac aactaaacaa      240
aancaaccta tattagaagg ttgccactat ttcttccaag acagagccag tcaactcgcg      300
agcaactttt gatgtggcct gtgtgtctca ccactcctag atgcctgagt gcttacatgt      360
gaaagcagca gcttcccact tgctgggaga gccttctggc acggcccttc cgatcctact      420
aaacagggca cgtgggtggg aagagtgagg acaggaggca aaagggggct ggtgtggnaa      480
ggantggagg ctgatctcaa cgcactccta ncagcctntg nggaagggtc tcaagtgacc      540
cttganatag tgagttgcaa tgtgaaangg aaagccttgg gatcatttgg gcccccttt      600
nttttttttc ttcncccccc ccaaatacac tttattcntt tttttggggg agccccccgg      660
ggggaaanaa ggnggngttt ccaaaattgt nangngggga acntcnntgg tttnaaaaaa      720
aaaaaatttt natttctttt tttnnngggn nnnngangga aaaanaaaaa atttgnttgn      780
ctgggcctng ggattgtttt ttcagggnna aaggnnttcc tttttaaat ttttttaaac      840
ncccttcctt taaagggggg gggggggggg ggttttannn aaaaccnttt ttttaccat      900
ggccttttng ggggaaanag ggaaaaaaa aanccccc nnggggggtg gntttttttt      960
nnttttccca acng                                          974
  
```

<210> 946
 <211> 940
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(940)
 <223> n is a, c, g, or t

 <400> 946
 anacatntgg agctccaccg cgggggcggc cgctctagaa ctagtggatc ccccgggctg 60
 cagggtttcc aggacagctg atgggagagg aagctgggtg tctccaaga gtcccaggct 120
 gcaaagggga gagagctgac ctttctcaa cccctgcttt gggcccagcc ctgcgccagg 180
 tgcttcacag ctcttatctg ccagattttc ccaccttggtg gcacatggcg cccctaacca 240
 acatccaag aggccgatca ccttgccaca tctgtgcaag acctgggacc acaggcgtgg 300
 acaggaagg ctccgaagcc ctctttttac agatgaagat gccagggccc agggaggatg 360
 agcagtcttt ggggttacc agccggaata ctgggagacc tgaaccagc attctgactc 420
 tgcattcagt gtcgctcca tgatgcagcg gtccctagccc cccctcaaa tgggtcccct 480
 cttcactgtg tttcccagca ttccttgctc tgaccaaacc ggggaaggga cacagcccac 540
 ccccaaaaga tggaatcatt ctcttaaccg tctttgtccc aactggctgn cactccaaac 600
 ccgtccccct ggcccctgac cttgctgggt ggggaaaagg ctacgtnggg cccaggctga 660
 acaatgaatg ancatgtcaa gctgtcaaaa tnttgggaaa taagngcatt ctactggcaa 720
 cccgccttcc tgatcccgnc tggatttгна ccataaagng acatgagaag ccccccgtgtg 780
 tntgtttttg tgtgcccccc ccccccggg ggnntncnt ngnnaggggn tttggnannt 840
 tttttggttt tggaatattt gaaagggcc aaaaaaaaaa cnggggggtt tccttttgaa 900
 aaaaaaaaaa aaaaaaaaaa nttngggggg gggggcccn 940

<210> 947
 <211> 923
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(923)
 <223> n is a, c, g, or t

 <400> 947
 ttnnacaaaa ctggactccc cgcggtggcg gccgctctag aactagtgga tccccgggc 60

tgcaggggttt ccaggacagc tgaagggaga ggaagctggg tgtctcccaa gagtcccagg	120
ctgcaaaggg gagagagctg acccttctca aaccctgct ttgggccag ccctgcgcca	180
ggtgcttcac agctcttate tgccagattt tcccaccttg tggcacatgg cgcccctaac	240
caacatccca agaggccgat caccttgcca catctgtgca agacctggga ccacaggcgt	300
ggacaggaag ggctccgaag ccctcttttt acagatgaag atgccagggc ccagggagga	360
tgagcagtct ttgggggttac ccagccgga tactgggaga cctgaacca gcattctgac	420
tctgcattca gtgctcgctc catgatgcag cggctctagc cccccctca aatgggtccc	480
ctcttcactg tgtttccag catccttgct ctgaccaaac cggggaagg acacagccca	540
ccccaaaag atggaatcat tctcttaacc gtctttgtcc caactgcctg ccactccaaa	600
cccgcccccc tggccctga ccctgctggg tggggaagan gcttcacgtg ggcccangct	660
tgagcagtga atgaacattg tcaagcttgt caaacttttg ggaaaataan gcattctaac	720
tgggaanccc gcttnctga tccgnetgga ttttggnct taaaggggac ttggaaagcc	780
ccctgngggg ggnanatggg gggccccccc cccccgngg ggaaaacccc taagganang	840
gggttttggg acaccttttg gggtttggg aaaatttgan agngcccaa aaaaaaccng	900
gngggttttt ttttttnaaa aaa	923

<210> 948
 <211> 983
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(983)
 <223> n is a, c, g, or t

<400> 948	
ttnnncaaan ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atccccggg	60
ctgcaggggc gtcaagggtc tccgtggagt tggagctttg gcctcccagg ccctgagggc	120
ccggggtcca aatggagtct ccgtggtgcg ctctatggcg tctggaggtg gtgttcctac	180
tgatgaagag caggcgactg ggctagagag ggaggtcatg ctggctgctc gcaagggaca	240
ggaccatac aatatacttg ccccaaaggc aacctcaggt accaaggagg accctaattt	300
agtccccctc atcaccaaca agcggatagt gggctgcatc tgtgaagaag acaacagtac	360
tgtcatctgg ttctggctgc acaaaggcga ggcccagcga tgccccagct gtggaaccca	420
ttacaagctg gtgccacacc agctggccca ctgagccact gcactaatgc actcagaata	480

tgatgtggaa tttcttcttt ccagtaaaga ctagccatta cattggcttc tcctcccata	540
anaaaaaaaaaa aaaaaaaaaa ancccnnggg gggggncng gcccaanttc ccctatngg	600
gngnnnnnnna nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	960
nnnnnnnnnn nnnnnnnnnn nnc	983

<210> 949
 <211> 989
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(989)
 <223> n is a, c, g, or t

<400> 949	
ttnagcctat agtgagtcgt attacagggg cggccgctct agaactagtg gatcccccg	60
gctgcagggg cgtcaagggt actccgtgga gttggagctt tggcctccca ggccctgagg	120
gcccgggggc caaatggagt ctccgtggtg cgctctatgg cgtctggagg tgggtgtcct	180
actgatgaag agcaggcgac tgggctagag agggaggtca tgctggctgc tcgcaaggga	240
caggacccat acaatatact tgccccaaag gcaacctcag gtaccaagga ggacccta	300
ttagtcccct ccatcaccaa caagcgata gtgggctgca tctgtgaaga agacaacagt	360
actgtcatct ggttctggct gcacaaaggc gaggcccagc cgatgcccc a gctgtggaac	420
ccattacaag ctggtgccac accagctggc cactgagcc actgcactaa tgcactcaga	480
atatgatgtg gaatttcttc ttccagtaa agactagcca ttacattggc ttctcctccc	540
attnnanana annnnnnnnc nnaaaacntg nggggggggc ccgnncccaa ttccccttn	600
aaggggngnc nnttacannn nnnnnnccnn nntnnnnnnn nncntnnncn annnnnntn	660
tnnncnnnnn nnnntnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntcnnnnn	720
nnnctnttt nnnntnnnn nntnnnnnnn nntnnnnnnn nnnnnntcnn nntnnnnnnn	780

ncnnnnnnnn	nnnnnnnnnn	nnnnncnnna	nnnnnnnann	nnnnntnnnn	nnnnnnnnnn	840
cnnnnnnnnn	cnnnnnnnnt	nnnnnnntnn	tnntntnnnn	nnnnnnnnnn	nnnnnnnnntc	900
tnnccnnnnt	ncnnnnntnn	cnnntnnntc	tnnnnnnnnn	nnntncnntc	nnnnnnnnnn	960
nnnnnnnnnt	nnntnnnnnn	nnnnnnnacn				989

<210> 950
 <211> 951
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(951)
 <223> n is a, c, g, or t

<400> 950	
nnnnanctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg	60
cagggtttttc tcaaagaggg cagcagactg ttctccccac aggccatggg gggacagggc	120
tgggagaaga aatagacgtg caccttatat catgtaaata tactgatttt tctagttcaa	180
gaaagaatta ttggtagagt gggaacggga gataagaatg agcaggaaat cttgagtaag	240
ccagctggct tttaagccaa aagggttcct ccgtgtttat ctttgagaca gtccaacccc	300
aagaatagct ttaaaagga aatcagtgtg gagacggtga agtcccttac ccaacacgcg	360
ccctgtaact ttagaatgaa cgcaggctcc tcagctgtgg gctnggcatt gntcccgta	420
cccgttggtg tgaaacaagg cgggaaattc attaggatgn ttatggnttc ttnatccac	480
ccagcttttc ctggttctgg attctaaaca acccanaacc atctctttcc tccggtggct	540
ctgcttctag acttgctgg gccctcagac ccgtttcttg gcttgggttt ccggaagcct	600
tcggcagact tatacacgca tgctcttgct gtcacattta ttnctttgcc ctgcagcctt	660
cttttggggg ggaaaaaaa gtgcnccttac tggactgtng ccnttttacn gtagcccagt	720
gtntttttca cagantggcc ctatcccttt tttttttttt ttaaaacagn gccccctcc	780
cctcttnttt tnttttttnc ntncnangan cttttttttt tnanngggcn acccccntn	840
ttgnaaaacc cccccgggg ttngggggc cccttgggaa tttnttccc natttnggca	900
aatcccccn tggnnccnnn gctccctaaa aattttnttt tttttnnnt c	951

<210> 951
 <211> 991
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(991)
 <223> n is a, c, g, or t

```

<400> 951
ttnagcctat agngagtcgt attacagtgg cggccgctct agaactagtg ggatcccccg      60
ggctngnngn atttcggcac gaggcccgtc tcctgtgtta ggtctgacct ccggccgatc      120
gtccgccgcc gcacggnttg ccgccatggc cctnancgat gccgacgtgc agaagcagat      180
taagcacatg atggctttta ttgaacaaga agccaatgag aaagcagaag aaattgatgc      240
naaggcagaa gaagagttca acattgagaa aggtcgtctt gtccaaaccc aaagactgaa      300
gattatggaa tattatgaga agaaagaaaa gcagattgag cagcagaaga aaattcanat      360
gtccaatttg atgaatcaag cgagggtcaa agtcctcaga gcgagagatg accttatcac      420
agacctacta aatgaagcaa aacagagact cagcaaagtg gnaaaagata caaccaggta      480
ccaagtgctg ctggatggac tggctctcca gggttttgta ccagttgctg gagcccccg      540
atgatcgttc gctgcaggaa aacaggatth tcctctggtg aaggctgcag tgcaaaaaag      600
caatccctgt gtccaagttg caacccaaaa aganacgtth gatgtccana ttgaccanga      660
aggccttacc ttgncccga ggaagatana ccggccggtg gtccgagaat ctattaaccg      720
ggggacccgc aaagaatcaa aggggtggtc caccncacct cgaaagggtc ggttgacact      780
tcatnagccc caaccaaag aatgccccga angtggcggg ggaggcctth gttttggtgg      840
caaagccca ccagggaagg ttttttggtg ttaaccacc aggaaggtgc cttgaccaag      900
ggaccctcc ccttnnttg ggaanaaaac naaatgggc cngtnttaa ctttctttt      960
tttctgtcc ccttgccctt tttttgggn c                                     991
  
```

<210> 952
 <211> 991
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(991)
 <223> n is a, c, g, or t

<400> 952
 ttnagcctat agngagtcgt attacagtgg cggccgctct agaactagtg ggatcccccg 60
 ggctngnngn atttcggcac gaggcccgtc tcctgtgtta ggtctgacct ccggccgatc 120
 gtccgccgcc gcacggnttg ccgccatggc cctnancgat gccgacgtgc agaagcagat 180
 taagcacatg atggctttta ttgaacaaga agccaatgag aaagcagaag aaattgatgc 240
 naaggcagaa gaagagttca acattgagaa aggtcgtctt gtccaaaccc aaagactgaa 300
 gattatggaa tattatgaga agaaagaaaa gcagattgag cagcagaaga aaattcanat 360
 gtccaatttg atgaatcaag cgaggctcaa agtcctcaga gcgagagatg accttatcac 420
 agacctacta aatgaagcaa aacagagact cagcaaagtg gnaaaagata caaccaggta 480
 ccaagtgctg ctggatggac tggctctcca gggttttgta ccagttgctg gagcccccg 540
 atgatcgttc gctgcaggaa aacaggattt tcctctggtg aaggctgcag tgcaaaaaag 600
 caatccctgt gtccaagttg caacccaaaa aganacgttt gatgtccana ttgaccanga 660
 aggccttacc ttgncccgaa ggaagatana ccggccggtg gtccgagaat ctattaaccg 720
 ggggacccgc aaagaatcaa aggggtgtcc caccncacct cgaaaggctc ggttgacact 780
 tcatnagccc caaccaaatg aatgccccga angtggcggg ggaggccttt gttttggtgg 840
 caaatgccca ccagggaagg ttttttgac ttaaccacc aggaaggtgc cttgaccaag 900
 ggaccctcc ccttnnttg ggaanaaac naaaatgggc cngtnttaa ctttctttt 960
 tttctgtcc cttgccctt tttttgggn c 991

<210> 953
 <211> 995
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(995)
 <223> n is a, c, g, or t

```

<400> 953
tnnnnaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60
gctgcaggaa ttcggcacga gggccgagaa ggcaacatgg gtcaccagca gctctactgg 120
agccatccga gaaaattcgg ccagggttct cgctcttgcc gggctctgctc caaccggcac 180
ggctctgatcc ggaaatacgg cctcaatatg tgccgccagt gtttccgcca gtatgcgaag 240
gacatcggct tcnttaagtt ggactaacca aacttcctta natggntcat ccagcacatc 300
anccttaggc ggaaacaatn ntagntnttt gtntataaaa taaangtttt caaancttca 360
aaaaaaaaa aaaaaaaaaa aaanccnng ggggggggnc cgggcccna nttcccntnn 420
nngggggggn tnaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncnnntnnn tnnnttntnt 660
nnnngnnnnn ncnnnnnnnn annnnnnnnn gnnnnncccc ccccccccc cccccnccn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngggggn 960
ngnnnttttn nnnnnnnnnn annnnnnnnn nnnnnn 995

```

<210> 954
 <211> 962
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(962)
 <223> n is a, c, g, or t

<400> 954
 ttnancaaan ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggt 60
 ctgcaggaat tcggcacgag gcccantctc atcccgctct ctcccctggt tgtaaattgc 120
 tgcactggta acatcaggta acctaggaaa gaatctgcct gcaatgaaag agactgggggt 180
 tcgatccctg ggtggggaag atcccctgga gaaggaaatg cancccatc cagtnttctt 240
 ggagaaggaa atggcanccc actccagtan tnttgcttgg anaatcccnt ggacagagga 300
 nactggcccg ttggaatagg actgaccacc taccattttc ccaccntttc cacttggaaac 360
 tttccagttt tnggaagcaa aaaaatggac ttcaggcttg gttnggaaat aacctacttt 420
 ttttgnngga atnacctttt catttgnnaa aataaaatan ggttttctcn tttctgnttc 480
 naaacnnta aaaggggtga agnaaaaatt ttcgacctat ggttattaaa ctngatttgn 540
 aatatncctt gaaagcttac cttggaaacn taccttatan tttncntgcc ccaaattttg 600
 tttgttttaa aattanaang gaaaaaatgg atntaagtta atttaataaa ttaattggnc 660
 tggccttggg attnaatcct cncagcaatc ctggttgggn ctggtttnc ctttttggat 720
 ngggnaatgg nggncccggt naattttttt cttttaacct cttgaatgcc angttaaaaa 780
 gggcttttct ngggggggnc cttnnngggg aaaaaaac ccccccttgg ccannanaac 840
 cttaaaaaaa aaangggggt ttgaancccc tggggcccc aaaaaaccct ttgggnaaaa 900
 ggnaaanggc aatanccct cccaaaanat tcncnccng ggnaaangnc ccttggnaaa 960
 ag 962

```

<210> 955
<211> 967
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(967)
<223> n is a, c, g, or t

<400> 955
ganacatttg gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct      60
gcagggtcgg tctgggtgtc anntgctcca aggaagtagc cactgccatc cgtggggcca      120
tcacacctggc taagttgtcc atcgtccctg tgcgaagagg ctactggggg aacaagatcg      180
gcaagcccca cacggttctt tgcaagggtga ctggccgctg cggctccgtg ctggtgcgcc      240
tcacccctgc cccagaggc actggcatcg tctccgcccc tgtgcccaag aaagctgctg      300
atgatggggc ggattcgacg actgctacac ttttgccagg ggctgcactg ccaccctggg      360
caactttcgc caagggcact tttgatgcca ttttcaagac ctatagttac cttacccttg      420
acctctggaa agagacgggtg ttcaccaagt cttcatatca agaattcact gaccatcttg      480
ngaagaacca caccagaagt cttcgtgcaa aggacacang gccagctgt agccaccaca      540
taattttata aaggaataa ttaaggtgaa tgaaaccaa aaaaaaaaaa aaaaaaaaaa      600
acttgggggg gggcccgggc cccnatttcn ctttatgggg ggggnnnntn anaaannnnn      660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      960
nnnnnnnnn                                     967

```

<210> 956
 <211> 915
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(915)
 <223> n is a, c, g, or t

<400> 956
 tnnnnaaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg 60
 ctgcaggggtc ggtctgggtg tcaagtgtc caaggaagta gccactgcca tccgtggggc 120
 catcatcctg gctaagttgt ccatcgtccc tgtgcgaaga ggctactggg ggaacaagat 180
 cggcaagccc cacacggttc cttgcaagggt gactggccgc tgcggctccg tgctgggtgcg 240
 cctcatccct gccccagag gcactggcat cgtctccgcc cctgtgcca agaagctgct 300
 gatgatggcc ggcacgacg actgctacac ttctgccagg ggctgactg ccaccctggg 360
 caacttcgcc aaggccactt ttgatgcat ttccaagacc tatagttacc tcaccctga 420
 cctctgaaa gagacggtgt tcaccaagtc tccatcatcag gaattcactg accatcttgt 480
 gaagaccac accagagtct ccgtgcagag gacacaggcc ccagctgtag ccaccacata 540
 attttataaa gggaataata aagtgaatga aaccnnnnnn nnnnnnnnnn nnnnaaaact 600
 tggggggggg cccgggnccc antttccctt ntanggnggg nnnnaannnnn nnnnnnnnnn 660
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
 nnnnnnnnnn nnnnnn 915

<210> 957
 <211> 989
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(989)
 <223> n is a, c, g, or t

<400> 957
 ttnnncannn ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60

gctgcaggct atacatcact gttcttttgc tgtctcgtac gcagcatagc ctcttaaaat	120
tgtatcctga caaagaccac atcagcacat taccgccac tgatccacta gatggcgctg	180
tctcaagctg gcagaacaca ccaggtaatt ttttgacaag ttctttctgn gtctcataaa	240
atagaggtaa agctaacatt ctttactgat gcgcagtatc agatatttaa ctaaaaaatt	300
caccagagtt attgtgcgct gttgcgttgc taggaaatgt actaccattc acccacattg	360
cacacagcag gtgtctcgga gctcattgtg tgctcacaga acgtgaagcg tggtccttgt	420
ggagtaaadc cactcgagaa cgaggctctg aggtttctcg gctgccttcc tgactccgtc	480
ctgggatgaa gacatccaaa tcattttctaa atgtttttac tctcacataa agtaagccat	540
ttcttgttct gttctctgag acagactttt ctatcaactc tgtcctgtcg ttgctgcagt	600
tgaacgattt tgttttgctt tgatttgcac tcgagggtcc agcaacgtgc tgtggggacg	660
tccctgggtg cccagtgggt acagaatccg actgccaacg caggggacac aggttcaatc	720
cctgatccag gacgatccca catgccgcgg agcagccgag cccacgtgcc actcagttgg	780
cccgtgtgcc actgggtgac gccatgnaaa cgagaagtcc tggtagccca acnaagaagt	840
anccccact tannaaccaa agacttggn ccaacccaaaa ntnanttaaa antccnaaa	900
aaaaaaaaa ancctnnggg gggggggccc gggcccnan tnccccctnn nnnngnnnnn	960
nnnnnnnnnn naaannnnnn nnnnnnnnc	989

<210> 958
 <211> 977
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(977)
 <223> n is a, c, g, or t

<400> 958	
gcctatnngg agctncancn cngtggcggc cgctctagaa ctagtggatc ccccgggctg	60
caggatcata tagtaaacc cagcccttga cctcttacag gagctttgtc tgccctctta	120
ataacatccg gcctaaccat gtgatttcac tttaactcaa tgaccctgct aataattggc	180
ctaacaacaa atatactaac aatataccaa tgatgacgag atgttatccg agaaagcacc	240
ttccaagggc accatacccc agctgtccaa aaaggcctcc gttatggaat aattcttttt	300
attatctccg aagtactatt ctttaccgga tttttctgag ctttctacca ctcaagcctc	360
gccccacccc ctgaactagg cggctgctga cccccaacag gcattcaccc actaaacccc	420

ctagaagtcc cactgctcaa cacctctgtc ctattggctt cggaggtttc tattacctga 480
 gcccatcata gtttaataga aggggaccga aagcatatat tacaagccct atttatcacc 540
 atcacattag gagtctactt cacactacta caagcctcag aatactatga agcacctttt 600
 actatctccg acggagttta cggctcaact tttttttag ccacaggctt ccacggcctt 660
 cacgtcatca ttgggtccac cttcttaatt gnetgcttct tccgccaatt aaaanttcatt 720
 tttactnta accaccnctt cggcttttga agcccgttg ctgatactga cattttngna 780
 aacgnannnn ggacntttcc cttatggntc tatchatggg ggagntcct nnnnnnnnnn 840
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa aanggggggg 900
 gggggggggn nnnnnnnnnn nttttttttn nnnnnnnnnn nnnnnnnnnn aaaannnnnn 960
 nnnnnnnnnn nnnnnnnn 977

<210> 959
 <211> 926
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(926)
 <223> n is a, c, g, or t

<400> 959
 naaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
 caggaattcg gcacgaggga gagagagaga actagtctga gttttttttt ttttttttgg 120
 ngaanttttt ttngnaccn gccaccnngt tntngtnaaa ggggggnantn gaacctnngg 180
 gggncenncg gccngcnann anttngccct aaaangngcc cttttngnaa annggggggtt 240
 tnnncnggn ccncgncccc ttttttttng nccggggggc ccnnnccnaa aanntttttt 300
 tttntngta anctngnttt taaannttnn tttnncccn tnaaaaaaan tngtttngg 360
 gcnanttgn ccnaaaaccc ttncangnn gnnttttngt ttcccaaaaa aaaantnccn 420
 tttcccccaa aaaaaaaaaa aaaaaccnng ggggggggcc cggccccna tccccntnn 480
 nggggggnnt nnnanannnn nnnnnnnnnn nnnnnnnnnn cnnnnnnnnn nccnnnnnnn 540
 nncnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720

ncnnnnnnncg ncncnnnnnnn nnnnnnnnnn nccccnnnnn cnnnnnnncnn nncnnnnnnn	780
ccnnnnncnnn nncncnnncn nnnnnnnnnn nnnnnnctnc nnnnnnnnnc nncnnncnnn	840
nnnnncnnnnn nnnnnncnnn nccccnnnnn nnnncncnnc nnnncnnctn nnnnnnnnnn	900
tncnnnnnnn ncnnnnncnnn ccnnnc	926

<210> 960
 <211> 1038
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1038)
 <223> n is a, c, g, or t

<400> 960	
ttaagncnt nngtgnggt nnnntnaaa nnggannacc gctctanaac tagtgggac	60
ccccgggctg caggncantg catatncntg tttggngtgt ggcaagtact ttcanggccg	120
gggnttgaan tctcatgcct acattcacng tgtccagttt agtcaccatg tnttcctcaa	180
cctccacanc ctcangtttt actgcctccc tgacaactat nagatcattg attcctnant	240
agangacatt acgtatgtgt tgaanccnc tttcaciaag cagcagattg ctaacttgga	300
caagcncgcc nagttatncc gggcatatga tggcaccact tacctgccag gtatcgtngg	360
ccngaataac atnnangcca attgacnact ccaactgccg ncctttcang ctctgtctaa	420
ccnttntcc tntctgganc taccttctgg caagangach actntatang aacatcnat	480
ntctncangg ggatattatc gattttntn ggtccannn gttncgnan nagctncngg	540
agaaaacttt ctntaaccn cttgccaatt ncnaaagcac ntgtcctcct tccccattga	600
aaccctccac ncctntcngt cctctngncc accntcncn nctttttanc aatnnacna	660
tacagggggg gatcngaagg ngnattttta ctnnccctgg ggcttttnga anggntnann	720
cantncacca attgnnnggg cctcannnga agaaananch annancnttt nggtncctga	780
nnggttantn ccngagggnn ncnnngnagg ctnnnttnt tnanaaaant nngcctantt	840
ctggntttnt tnntcgann acattaaaag aacatccctn nngntctna ntgnancant	900
tccncncgga tnncannncn ncgnttncc ctaaatattn attgtctaga gcnanntngg	960
anccctttcn taccctgtnc tccnagntcc tatgggnatn ctaaatgtgc nanangttnn	1020
ntantatccn ncccgncc	1038

<210> 961
 <211> 1038
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1038)
 <223> n is a, c, g, or t

<400> 961
 ttaagncnt nngtgnggt nnnntnaaa nnggannacc gctctanaac tagtgggatc 60
 ccccgggctg caggncantg catatncntg tttggngtgt ggcaagtact ttcanggccg 120
 gggnttgaan tctcatgcct acattcacng tgtccagttt agtcaccatg tnttcctcaa 180
 cctccacanc ctcangtttt actgcctccc tgacaactat nagatcattg attcctnant 240
 agangacatt acgtatgtgt tgaanccnc tttcaciaag cagcagattg ctaacttgga 300
 caagcncgcc nagttatncc gggcatatga tggcaccact tacctgccag gtatcgtngg 360
 ccngaataac atnnangcca attgacnact ccaactgccg ncctttcang ctctgtctaa 420
 ccnttntcc tntctgganc taccttctgg caagangacn actntatang aacatcnnat 480
 ntctncangg ggatattatc gattttntn ggtccannn gttncognan nagctncngg 540
 agaaaacttt ctntaaccn cttgccatt ncnaaagcac ntgtcctcct tccccattga 600
 aaccctccac ncctntcngt cctctngncc accctcncn nctttttanc aatnnacna 660
 tacagggggg gatcngaagg ngnattttta ctnnccctgg ggcttttnga anggntnann 720
 cantncacca attgnnnggg cctcannnga agaaanancn annancnttt nggtncctga 780
 nnggttantn ccngaggggn ncnngnagg ctnnntntnt tnanaaaant nngcctantt 840
 ctggntttnt tnntcgann acattaaaag aacatccctn nngntctnna ntgnancant 900
 tccncncgga tnncannncn ncgnttncc ctaaatattn attgtctaga gcnanntngg 960
 anccctttcn taccctgtnc tccnagntcc tatgggnatn ctaaatgtgc nanangttnn 1020
 ntantatcen ncccgnc 1038

<210> 962
 <211> 977
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(977)
 <223> n is a, c, g, or t

```

<400> 962
tnnnnaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60
gctgcaggcc ggtttcctga gncccgcaag gcggcggaga catctctttt gagtaaacga 120
ctcagcgtcc agtgctccag tggaaagatc taaggggccc gccactagcg ccgccaccat 180
gcccaacttc tctggtaact ggaaaatcat ccgatcggag aacttcgagg atttgctnaa 240
agtgctgggg gtgaatgtga tgctgaggaa natngcattg gctgcancat ccaanccanc 300
agtgnanatc aaacaggagg gggacacttt ctacatcaaa acctccacca ccgtgcgtac 360
cacagagatc aacttcaaga tcggagagga gtttgaagag cagactgtgg atgggagacc 420
ctgtaagagc ctggtgaaat gggagagcga gaacaaaatg gtctgtgagc anaggctgtt 480
gaagggagag ggtcccaaga cctcctggac cagagaactg accaacgatg gagagctgat 540
cctgaccatg acggcggatg acatcgtgtg ccccagggt ctacatccgg gagtaagcgg 600
ctgcggcccc agagccacca aagcttgccc ccgncatg ctctcttgc tctgnccca 660
cccctttctt ttaggctagc ttttncctt attccaatc actttntggg gggttctggg 720
gttgcccttn tgcangggct tttcntttta ttggaccct tcnttttct cccattatt 780
ttaaaccga tgggatggga gcccctaaat caccgatc canggattaa tttccccga 840
acccccncc ctggggcctt anccccaaa anaancccg nannaacct ttttttttn 900
tttttttgn aaggggganc cccaggggcc ttaaatnngg aaaaaaacgg gcccttttg 960
gctttccant ttttttg 977

```

```

<210> 963
<211> 948
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(948)
<223> n is a, c, g, or t

<400> 963
ttnancaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60
gctgcaggcc gccggccttg gggcactgtg ctggtcggcg gagtaggcgg ccatggggag 120
cctccgcggc ctgcgccttg tggctggaag ttgttttagg tcatgtgaaa gagacgcttt 180
ctcatcttta aggcttacca gaanctctga tttgaagaga acaaatggat tttgcagcaa 240
acccaggaa agtccaaagc ctccagacca acacacttac agccacagag tgccattgca 300
taagcctacg gattgggaga agaagattct aatatggtca ggtcgttca aaaaggaaga 360
tgaaattcca gagactgtct cgtttganat gctcgatgct gcaaagaaca aggtccgggt 420
gaagatcagc tntgtaatga ttgcctttgc caggggcagg atgctattg atggttatag 480
agggcaagaa ggctgccana anaaatgana ctttaccaag cttgaacctt aaaaaaagc 540
ttgtntgaaa aaaaaanctt gttttgaagg ccaaaccgag taccanatnt ntcgtnggt 600
ggattttgaa nacctaataa taatgctgca gcaataggcc ttattaaaaa naangggggg 660
gttgancttn ccttnttnc cttttaaact tcnaataaat tttnttaaan aaaaaaaaaa 720
aaaaaaaaacc ttnggggggg ggcccgggnc cccaattccc cctttanggg nggnnnnnna 780
aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 948

```

```

<210> 964
<211> 1008
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(1008)
<223> n is a, c, g, or t

<400> 964
ttnanaaat ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60

```

gctgcaggaa ttcggcacga gggcgcttct ttgctcgctc ctccgcaccc cgcgggcccg	120
ctcctccatc gatcgccatg gaagaagaaa ttgccgccct cgtcatcgac aatgggttctg	180
gcatgtgcaa agctggcttt gctggggatg acgcccccg ggccgtgttc ccgtccatcg	240
ttggggcgcc ccgacaccag ggcgtcatgg tgggcatggg gcagaaggac agctacgtgg	300
gcgacgaggc ccanagcaag cgtggcatcc tgacccttaa gtaccccatc gagcacggna	360
ttcgtcacca actgggacga catggagaag atctggcacc acacctttta caacgagctg	420
cgtgtggccc ccgaagaaca ccccggtgtg ctgacngang ccccttctaa cccaaggcc	480
aaccgtgaaa agatgancca gatcattgtt cgagaacgtt caacactcct ggcatgtatg	540
tgggcattcc aagaatgggn aatanttagn cgactgatgc ccgaacaatt ggaattgtc	600
nttggacttn tgggggacgg ggnnaccccc acaccggtgc cccattttac gagggggtac	660
gccctnnann nnnnnnnnat ncttgcgttt tggaccttgg cttggccggg aacctggaca	720
gaattacctt aatgaaaaat ccttaacngg aacnggggtt acagggtttt aaccaccac	780
aagcccganc cggggaaaat tggggccgng gacatcaang ganaaaactt tttggttacc	840
ttngcccctt ggaactttcg aaacaaggaa aaagggttaa ccgggtgnaa tcccccttc	900
cttcctttgg anaaaaaac tnttaanctt gnccccaan ggtcaaggng aaaaaccnt	960
tgggcaattg aaccnggggt tccgnggnc cccangggac cttttttc	1008

<210> 965
 <211> 925
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(925)
 <223> n is a, c, g, or t

<400> 965	
tnnnncaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccg	60
ctgcaggaat tcggcacgag gcttttgtat tatcaagtaa gattcttttt tcggctgtat	120
ataagcaaga ttgtttggtt tattcttttc ttttttagcg taggaaaagt ttgttgtaa	180
ggtatgcttc aaaattattg ttaattgtat tttgaattta catctaagcc ttgtaaatca	240
taactgataa gaggggggtg gcttttgttg atgaggagg ggaaaccttt ttttttcta	300
aacttttttc aaatanctn ttntgagtca tanccagcct ggcaatctga tggcctaaat	360
ggaanagggga ncagctcctt ggngaattgat aagtaanggc anaaanatt gtntttcatn	420

cctacnttgg ggaaaaaagc ntanccctga nattttnttc tgatnaacac attgnetgcn	480
catgcaaaaa aaaaaaaaaa aaaacnnggg ggggggcccg gccccaattn ccccttannn	540
nnnnnnnnnn aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	925

<210> 966
 <211> 987
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(987)
 <223> n is a, c, g, or t

<400> 966	
acaaanctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg	60
caggaaattc ggcacgagga gacatggcca agtccaagaa ccacaccacg cacaaccagt	120
cccgaaaatg gcatagaaac ggcatacaaga aaccccgatc acaacgatat gaatctctta	180
agggggtaga cccaagtgc ctgaggaaca tgcgctttgc caagaagcac aacaagaagg	240
gcctgaagaa gatgcaggcc aacaatgcca aggccatgag tgcacgtgct gaggctgtca	300
aggccctcgt gaagcccaag gagatcaagc ccaagatgcc aacaggtggc agccgcaagc	360
tcagccgact tgccatcacg gctcacccca agctggggaa gcgcgctcgt gctcgcacgc	420
ccaagggcct caggctctgc cggccaaagt cccaggccaa ggcttcaccc aaggccaagc	480
cacctgcggc tgcggctcca gctgccaaag gtgccaggc cccacacaaa gctccggagt	540
agagaccttc atctgccagt gtgaggacag aaggactggt gtgacccctt gggctgctgt	600
ctgcgtgggg ctggtgtcct cctgtgctat ttgtacaaat aaatctgaga caggaaaaaa	660
aaaaaaaaaa aaactnnggg gggggcccgg nccccatttn nccctaaang ggangnnnnn	720
nnnnagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngngn	780

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn	840
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn	900
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn	960
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnn	987

<210> 967
 <211> 983
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(983)
 <223> n is a, c, g, or t

<400> 967	
nncaaanctg gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct	60
gcaggaattc ggcacgaggc tttgggggttc tttctccgcg taacgtgtgg tctctgatat	120
tcaaccctcc tcccagcata ggctgcatga ggcggggggcg ggctcccaca ttcctgctcg	180
gcggaggggc cgctctgctg ctgtcgctgt tttggatgcc gacactgctg cctgcagcct	240
ctgcctttct gttgctaccc cgagccctgc tgtccatggc ttcaggaagt cccccggccc	300
agcctctgtc ggctctgggc tccgcctatg tccccggctc ggtctctgcg gcctttgtca	360
cctgccccaa cgagaaggtc gccaaaggaga tcgccagggc tgtgggtggag aagcgcctag	420
cagcctgctg caaccttgct cctcagatta catccatcta tgagtggaaa ggaaagattg	480
aagaggacag tgaagtgctg atgatgatca aaacccaaag ttccttggtt ccagctctga	540
cggattttgt tcggtctgtg cacccttatg aagtggctga ggtgattgca ttgcctgtgg	600
agcaagggaa ctccccgtac ctgcagtggg tgcgccangt tacanaatcn ggtntctgact	660
ccagtacaag ccccgctgtg aatgaacctt tggctntggc ctgggttncc tcataaatat	720
caacacttct acccttggaa gaacnggact cttaaaaaaa tcccggtttt aantcttttc	780
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnngggggg gggggggccn nccccnnnt	840
nnnnntttnn nnnnnnnnnnnn nnnnnnnnnnnn nanannnnnnn nnnnnnnnnnnn nnnnnnnnnnnn	900
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn	960
nnnnnnnnnnnn nnnnnnnnnnnn nnn	983

<210> 968
 <211> 1322
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1322)
 <223> n is a, c, g, or t

<400> 968
 ttntnttagt nangnttgct ngancncacn gnnncctntn agncctatat ggagctgcat 60
 nacagtggcg gccgctctac aactagnnga tccccccggn ctgcnngaac acgggntccn 120
 agngnttttt tactcttttc ctantntnnc cgacncnttc antnggggta ncttccagnn 180
 ngatctnagg nntcncctna gatantntnt gttnnctnnc agtngtcctg tngatcccnt 240
 taccntntgn natntnttca ttcnngncaa ntgnaagnaa ggtangtcnc cctcaatgta 300
 ntattngtgn tncgntngcn gtcttntnnn ngntttctat tcnntnnctt nncnnnnnt 360
 ccctgnattn attntttnt atnttctccc cnnttgtnca nmantntcnn ntntntanat 420
 ctgnaaacn ccnttagct cntannnnnt anntntnttg tgcnnctnc attttntnta 480
 ntncnncann tannnatcta cnganntaat nttnttaang tntttntctc cngntcccc 540
 nnntcnnntn tancnnntnt cntttccact tcgggcttng nnnnanacna tncnnntntt 600
 cnacncctnn tccnccccn ttnnnnttcc cgnccatatt tctttaangt anactntnnc 660
 atantgttn tntacttntt angntnnacc acatcttntc gtaaatnccn acctttcnc 720
 atnnanncnn acancgantt annntttttt tntnctttt tncctctctc cnntnttnc 780
 nttntntatc ctncctnncn atnnntctnt cnnnccctt nttnttttcc ttntnatatc 840
 tacgntatcc nnntcnaatg cnaactctgt attttatnnc cttaagacnn tcancantng 900
 natntttnt nnatttnatt actatgcnn nnncccggn gcancntnt nttgggtcnn 960
 tctcctntt ntnatcnan nancatctc ctgnaanntc ngcttcnntn cattnaant 1020
 ntngccancn attngtgta atntntntat tntcactnn tntnaatnt ntntcctnt 1080
 angannntca catatcnac nntntgntc ngctctcac nttntatnta tcntntatat 1140
 agntntata tngattgttc tntnangata tgcatanntn tgntcatctg ttattgcacc 1200
 tcgcnanact nntnngtnan ctgncatnt gcncatctat ctccttaagn tcnacancnc 1260
 ttnnngcnc nctgatncta tntatntctc ntnttanca tacatnctnc tctntntnc 1320
 cg 1322

<210> 969
 <211> 982
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(982)
 <223> n is a, c, g, or t

<400> 969
 ttnagcctat agngagtcgt attacagtgg cggccgctct agaactagtg gatccccng 60
 gctngnnggn nangggcata tgcttggctt ggggtggtgtg gnaaggacct ttnagggccg 120
 ggggttgnaag nttangnctn nntttacnng ggnchnantta ancnncntgg ntttcttaac 180
 cntcannccc ttaagnttta nnggcntcct nncnacnann aaaacattgn ttcctnactn 240
 aanganntta cgtatgnggt gaanccact ttnacaaagc ancagatatg ctaacttgga 300
 caagcaagcc aagttatccc gggcatatga tggcaccact tacctgccan gtntctgtgg 360
 gcctgaataa catanaggcc antgantacg ccaacgccgn ncttnnggct ctgtntaang 420
 nncctcctct cnggaactac tttctgggag aagacactta tangaacatc aaacgncctc 480
 caggggatat catgtgcttg ttggccancg tttcggagag ctgatgagaa aactctggaa 540
 ccctctaatt tcaaagnaca tgttttccnc atgaaangnt gcaggctgtt gtcctctgcn 600
 gcaagaagac tttttntatc acgaaacaag gggatggagn tgatttntct gncctgnttn 660
 ttgaaaagct ntacactnna nctctggggg ggngcccca agnaaaaaaa aaagacaaat 720
 tgttacctgg acgtttttcc angggggngc cattgaagga tctttcncta aaaaaaang 780
 ccttcacctt tgattttggc cancaaaaaa aaaaaaaaaa ncaacntcnt gcnttattta 840
 ccgantncc ccggnnaacc nangggngg ggggnncna ntaatttac cntggcncnt 900
 tggngangttt cctttncctc cccccctgtt ncnnnggacg gaaaaangga nacnggnttc 960
 attttttccc cnnnggggnt tn 982

<210> 970
 <211> 982
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(982)
 <223> n is a, c, g, or t

<400> 970
 ttnagcctat agngagtcgt attacagtgg cggccgctct agaactagtg gatcccccg 60
 gctngnnggn nangggcata tgcttgggtct ggggtggtgtg gnaaggacct ttnagggccg 120
 ggggttgnaag nttangnctn nntttacnng ggnncnntta ancnncttg ntttcttaac 180
 cntcannccc ttaagnttta nnggcntcct nncnacnann aaaacattgn ttcctnactn 240
 aanganntta cgtatgnggt gaanccact ttnacaaagc ancagatatg ctaacttgga 300
 caagcaagcc aagttatccc gggcatatga tggcaccact tacctgccan gtntctgtgg 360
 gcctgaataa catanaggcc antgantacg ccaacgccgn ncttnnggct ctgtntaang 420
 nncctcctct cnggaactac tttctgggnag aagacactta tangaacatc aaacgncctc 480
 caggggatat catgtgcttg ttggccancg tttcggagag ctgatgagaa aactctggaa 540
 ccctctaatt tcaaagnaca tgttttccnc atgaaangnt gcaggctgtt gtcctctgcn 600
 gcaagaagac tttttntatc acgaaacaag gggatggagn tgatttntct gncctgnttn 660
 ttgaaaagct ntacactnna nctctggggg ggngcccnna agnaaaaaaa aaagacaaat 720
 tgttacctgg acgtttttcc anggggngc cattgaagga tctttcncta aaaaaaanng 780
 ccttcacctc tgattttggc cancaaaaaa aaaaaaaaaa ncaactcnt genttattta 840
 ccgantncc ccggnnaacc nangggngg ggggnncna ntaatttac cntggcncnt 900
 tggngangttt cttttncctc cccccctgtt ncnggggacg gaaaaangga nacnggnttc 960
 attttttccc cnnggggnt tn 982

<210> 971
 <211> 1002
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1002)
 <223> n is a, c, g, or t

```

<400> 971
ttnanaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccg 60

gctgcaggaa ttcggcacga ggcaaaaagc gattgcagtt gttgatgggg accgagataa 120

ggcccagaat tctgaccaga tacttgacac ttcacacccc gttcctggct gttcctctgt 180

agctaacatc acatcatctc agacaacctc acgacaacag ggactggcac atccaactcg 240

aggaggtgat gctgaggctg aacacacagt gagcgagcac ccaacttcta gcagcggagc 300

cccagcgcct tcctcatctc aagctagtga gggctctcct cagcattgtg ccttaggtca 360

agtggaggat catccttggc agctcanaca accttggtan ttgatagaat accaaaggat 420

acaattgncg gatccgactg aacaccactt aaaaaggaan ccgaatcctg anaacttggc 480

ccgncntnng agtgggnccg aaaaaaaanc ttantacatn gnaangcttg gaatggcnnc 540

ccaaaattcc cttgccccgg ccattaatt ttnaaancca tngngttacc tttncaggnc 600

cccgggaatc attcgagggg cttgncaaaa ggaaaaggtt cttcccatnt tcttnaaagg 660

aaaagggggc ncaagganca ggaaacattt ttgatgnatt tacaaggggn cccggnnttt 720

ggccggttgg accaacttgc caaccaagt tgnntttcat tanaaggaat cgcttgggcc 780

ntttnaaaaa accgccnaaa ancccaagtt ttttangggg aatccaagn ccaagctttc 840

caaanaaaaa aaacttttct ttnaaanaat taaatnttta aaaanggccg aaccttttaa 900

tnccanaaag ggggggtntt ttcangggaa aaancccnaa aaaattaagg ggattnaaaa 960

aanaaattaa tccaancccc tnccnnggga tgnaaatntt ng 1002
  
```

<210> 972
 <211> 1022
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1022)
 <223> n is a, c, g, or t

```

<400> 972
ttganaaaagc tggactcccc gcggtggcgg ccgctctaga actagtggat cccccgggct      60

gcaggaattc ggcacgaggc ttnnnnacnc cntcgaactc nangggnnnc cngggcncca      120

attcgcttat agaggantcg nnttacantc ctgaaggnnn ccnnaananc cctntnngaa      180

attncatgcn ccngnnatnn cncctcctn anctncngaa tgaanaannt ggncttgatc      240

ctnncnaagn tggcaatncc natnctatna agtccttttn naccgtggaa ntnggccaaa      300

cgtgcntaaa nccattctt ttgnttatcc cncaggatta ctggtnacca tttcctgncg      360

angagaacan ncntnttggg tttgnagact ncatgnaagg ncngnttttt agttnanctt      420

tgcctatcct gaacttgccg aagacggacc tggntnccct ggttgncntt ccncctgggt      480

ttnctncagc cngggccttn tcaaaaaaat tacattttcn ctgngnagna ttncattgg      540

catacattgg nttattgcag nggggaatnt aaanaaaagc cttgaaactt aatgggggtca      600

aatgaaaagt gaaatttcna nggnttgaan ggaaaaaac caaatttncc attcccnagt      660

tttggnngga atgggttgna ccaaaaaana ccccttgggg ggaaatgggg gccaaaaaca      720

gnntttncnt tatttaaaac cccccaaggg ccggnaanac ctnccttant tngganaata      780

ttngcccccc ttntggannt tcggnggggg ncnttgaatn aaanaaattt gggcngaaan      840

ctttgggccc ccggtttggc ctttttnatt naaaccctaa nttntttttt ccaangttcc      900

caaaaaaaaa acctttncac ctcccaaatt nccccttttg gggnttaaaa ntttggcgng      960

ccccgtcnan angggcncca ngttcccccg ttttttntt ttcccnatt ntntgnggga      1020

aa                                                                                   1022
  
```

<210> 973
 <211> 1008
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1008)
 <223> n is a, c, g, or t

```

<400> 973
tnnannanaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg      60
ggctgcaggc ttgtatgtac agggcantga tgtaacaaca aaaaatacct gagaaacana      120
atgtccatgc tttctgcatc tttaacactt tgtgtttgta tcacctcatg gtggcttatt      180
tttcctggtg taccatccag tcagattttg aataaacgag ttttgaaaag acagtacctt      240
ttactataat tgccattagc aaagtagccc tgggtacttc atgagaaccg gtattaaaat      300
attagtggga cggctctttt ctgaagcttc ggaagtancc acatcaggga cctaggatat      360
ttttctgagg tcaactggaca actagactat gnattggctg ctatnccctg acctgtanta      420
cagaatgatg ccttggctat gtaatggaat atattctaag ggggatggtg tatattaagg      480
gacttttatt cacaagtacc atantggata ttccaatgta tggnaaaaaac catctggtgg      540
gttgggggnc ntttttaatt tacaggtttg nattagaacc ataanatgaa aacctctggg      600
gaaaaaantt ttgaatgggc agccccaccc ccaaactatt ttttaaatca nttcattana      660
anattttctt caataagggn cttaattttt tccttttgaa acctataaaa taccgtcaan      720
aaaaaaaaaa atcaagttat ctttntttct atcaactggt tttggaccta gttttaaata      780
taaaanggnc cttanatttg naanaccttt tcttttgctt tacactggcc tcanttataa      840
aaacagggca ntttcncgct gggtcanggg gatcacaagg gacctcaact ggaaantnaa      900
aanttttggt atcnaaaaaa tgtccgncat nggcaatggt nccncccccc caattaaana      960
taccttttcc aagcttggga tnccccnaaa aaatntttta aaccggggg                    1008
  
```

<210> 974
 <211> 913
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(913)
 <223> n is a, c, g, or t

 <400> 974
 tnnnacaaan ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg 60
 ctgcaggnaa aatatgtctt tcnttttgnc acntanaanc tganactgan nnnngttggn 120
 gganangana tnacagntga nttctgnntg gagttgatga gcccaaggac tgggctgttt 180
 gggccatata ctgttcatgg gttttgccac cactatagaa ccttctgtgg tctcccttgc 240
 gaaaggggca cagctcgtca gcgtatttaa ggagtgaaca gagtggagag catgagggga 300
 acaaacaggt gggggctgtt atccagagaa cagtgtctgt ttctgcaaga acttctaggg 360
 tagtatagaa tgggtgttggg agcaaagact ttagagtgc acagagtcct aacaggtctc 420
 ttcacttctc ttgggctgca gggataatcc tacaggtccc taatccctta tttgaaatct 480
 tttgggatgg gtgtgttttg ggattcagga tgattcagat tttagaaagg gaatatagtg 540
 cctttatgat acataaagta ataccccagt gagattcang gcagtgccct actgtattca 600
 aatctatcaa tgggttctgta gctaaatata tgaatattcc cacttaagtg agataaatag 660
 attttataaa tngggatcgg gaccggtcaa aacaaaattt tgggtccaaa gttntgaacc 720
 aactnttggg ttnttcaaaa aattttttat tttggnaatt ttanaaaang ggattatggg 780
 cctaaaaatt ggncncaagg tttttggggg aggaaataaa tttggcccaa aaaanccttt 840
 ttnaaaacnc cccaatgggn nggntttttt tncnatttc nanncccaa anaaaaancc 900
 aaagggccca ngg 913

<210> 975
 <211> 983
 <212> DNA
 <213> Bovine

 <220>
 <221> misc_feature
 <222> (1)..(983)
 <223> n is a, c, g, or t

 <400> 975
 nnntatctgg agctncancg cngtggcggc cgctctagaa ctagtggatc ccccgggctg 60

caggaattcg gcacgaggta nnetgccngn cnnentactt gcntgtntng ganganggnt	120
ncggcnnnct gngccaacnn aataacnntc gcatggctna tgacnggtca tgatgectca	180
gancccgang ngcggggatn cacgtgcgat cttangcctt gtgnacggga cgcccgcna	240
tnangatncn actttcgctc aaaaganngg atatntntg cgccnnnate ntttntctgt	300
gctagagaat cctcaggnaa angggnnngn cgnctttcat anncnacnnn ngaanancn	360
nnttncgcng gnnnnngac cnccttgngn tncctngna tnaaaagcnt ncgagngcaa	420
tataannccc ntgtncgna anntgacnnc ctngngnnn gcntannngn gngngntnaa	480
cntcnacng anagngnaaa ntaccanang gngtngatnc atnccanncc ggganntgnt	540
gggctttgna ctattggtgc ctgaangcaa ncgncntcg gnnagngncn agannncaat	600
ctntnaggcg nnactggang nacctttgac tgnactcggc ggaccagacn tacannngag	660
gtntttggga gacggacctn tgctactgn tttctngna tatacnnttg tggatgaacg	720
antantatnt nacgccttnt acctctntng natanccgcc atggatgngn gttcccttna	780
ccttcnctn cggtncttg gctcgagcgc ggncnctgg gcttntttgc tttgcttgan	840
gngggntca aatcccttnt cggacattaa gggggggnt ttancggttc ntgggggaaa	900
aaaaaggnan ttgccccctt gcttcaancg gttttttaac ccttttaana ntcccanggg	960
aggaaccccc cccatttnan nct	983

<210> 976
 <211> 1004
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1004)
 <223> n is a, c, g, or t

<400> 976	
naanactgga gctccancgc nggtggcgcc gctctagaac tagtggatcc cccgggctgc	60
aggccggccc tgtcgacct gccggcaaga gcggtgatcg tggtagagacc ggtcctgctg	120
gtcctgctgg tccattggc cccgttggtg cccgtggccc cgctggaccc caagggcccc	180
gtggtgacaa gggtagaca ggcgaacagg gcgacagagg cattaagggt caccgtggct	240
tctctggtct ccagggtccc cccggccctc ccggtctcc tggtagacaa ggtccttccg	300
gagcctctgg tctgctggt ccccgcggtc cccctggctc tgetggttct cccggcaaag	360
atggactcaa tggctctcca ggccccatcg gtccccctgg gctcgaggt cgactggtg	420

atgctgggtcc tgctgggtcct cccggccctc ctggaccccc tggccccca ggtcctccca	480
gcgggcggtc cgacttgagc ttctgcccc gccacctcaa gagaaggctc acgatgggtg	540
ccgctactac cgggctgatg atgccaatgt ggtcccgatga ccgtgacctc gaggtggaca	600
ccacctcaa gagcctgagc cagcagatcg agaacattcc ggagccctga angcagcccc	660
caagaacccc gnccgcacct gccgtnaact caagatgtgg ccactcttga ctgggananc	720
ggagaatact tgggattgac ccccaaccna ngnttgnaac ctggatgnca atttaagggn	780
ttntgncaac atggaaaccg gngganaact gtgtataacc cccctcaac cccanngtng	840
gnccaaaaaa aaacttggtt ttnttanccn nnaaaccccc aaggaaaaaa aagnccnttt	900
tgggtncngg nnaaaacatn aaaccggngg ganttnnnnt ttnaatnttg gggggncaag	960
ggggcccaan ncnttnccat nnggncnttc nnanttattt tnnn	1004

<210> 977
 <211> 942
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(942)
 <223> n is a, c, g, or t

<400> 977	
gccctatntg gagntnnatn ncngtggcgg ccgctctaga actagtggat cccccgggct	60
gcaggttaag ggtcaccgtg gcttctctgg tctccagggc cccccgggcc ctcccggtc	120
tcctggtgag caaggtcctt ccggagcctc tggctctgct ggtccccgcg gtccccctgg	180
ctctgctggt tctcccgga aanatggact caatggctct ccaagcccca tnggtcccc	240
tgggccttga ggncgcactg gngatgctgg tcctgntggt cctnccggcc cttctggacc	300
ccctggtccc ccangncctn ccancggngg ntacnanttg agcttctctgc cccanccacc	360
tnaaganaag gntnacgang gnggccgnta ctaccgggct gatgangcca atgnggnccg	420
tgancgtgan cttgaggngg acaccancct naagaacctg aaccancaga tngagaacat	480
ncggancct gaaggcagcc gnaagaacct cgccgcacc tgccgtgacc tcaagatatg	540
ccactctgac tggaanaacg gagaatactg gattgacccc aaccaaggct gncaacctgg	600
atgccattaa anggtttctg taacatgtga aaaccgggga gacactgtgt ntacccaac	660
ttcaganccn agagtggggc cangaanaan atgnnttatt ntncancnaa cncanaga	720

aaaananggc acntttttgt tacnggtgag ancaantgaa ccgncggnaa tttcnaaatt	780
tntagtattg nngggcaggg gtncccanac cntgncgatg tgggcanaca agnngaantt	840
ttntngcnct tgangnccac cnaggncctt cccaaaaaat nncntacact ggnagaaaca	900
aacgnggcct anttgggcca acannantgn ngaacccttt an	942

<210> 978
 <211> 1060
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1060)
 <223> n is a, c, g, or t

<400> 978	
tttgaggccn atagnagatc gtattacagn ggcggncgct ctataactag tggatcccc	60
gggctgcagg cccggcgctg ttgcagntnn gnagccctgc gtcttatctn tccagncggg	120
gtcctttgcc tcgccacccg cccnttcaac tggctgcgcc atggaggcnt accataagtc	180
tgatcagcac aagctgnagg ccntgangga cacaggccaa nngcntgcgt atnancnca	240
tccaagccac cactggcggn cagnatngnn ccanccnacg tcatgctgca gcgctgntga	300
gatcatggnt gtcctnttnt tacacaccat gcgctacaan gncctggatc ctcggaaccc	360
tcacaacgac cgctttgttc tctgnaaggg ccatgcaggn accccatcct tgtatgccgt	420
caggngatng aaagcntgnn tttcctgccc gnagtnanaa gctgctggaa ttttgaggaa	480
agatcagctt ccncttggga cggggcaccc ntggtncntg aaaacantgc cttttacccg	540
antgaggcca natgggactt cnttggncce anggncttg gaagcccgtt ttgcgggnat	600
ggcctncacc acggcnatat acttttnacn anagccacgc naccggggtt ttantngcnt	660
gcctnggnat acntggcgaa ctggncaaca nggacntncn ngntggnaag gnccanggcc	720
nttcnntcag gctnttnncn tancttngga naaaattttg ttnggnnatt ctttgaana	780
ttcaaccccc cntgggccaa naattgaacc cttncctcn gttgttgga cccanattgg	840
ncantaaacc cacnaagnn ctttctaagg nncntttng gnntngnnaa ncgccctggn	900
cattnantnt naatngggga cnaannngg gnaaaggaa ntntgncang ngggntttt	960
ngncnaggtg gnaangattc ngnnccnatn gaggcctntn ttntgggncn aaacnntttt	1020
ncaggggacc cnagtgtntt cnncaatggg nnnnaatacg	1060

<210> 979
 <211> 1060
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1060)
 <223> n is a, c, g, or t

<400> 979
 tttagggccn atagngagtc gtattacagn ggcggncgct ctataactag tggatccccc 60
 gggctgcagg cccggcgctg ttgcagntnn gnagccctgc gtcttatctn tccagnccggg 120
 gtcctttgcc tcgccaccgc ccnnttcaac tggctgcgcc atggaggcnt accataagtc 180
 tgatcagcac aagctgnagg cntgangga cacaggccaa nngcntgcgt atnancnnca 240
 tccaagccac cactggcggn cagnatngnn ccancnagc tcatgctgca gcgctgntga 300
 gatcatggnt gtcctntnt tacacaccat gcgctacaan gncctggatc ctcggaaccc 360
 tcacaacgac cgctttgttc tctgnaaggg ccatgcaggn accccatcct tgtatgccgt 420
 caggngatng aaagcntggn ttctctgccc gnagtnanaa gctgctggaa ttttgaggaa 480
 agatcagctt ccncttgga cggggcaccc ntggtncntg aaaacantgc cttttaccgc 540
 antgaggcca natgggactt cnttggncce anggncttg gaagcccggt ttgcgggnat 600
 ggctncacc acggcnatat actttnnacn anagccacgc naccggggtt ttantngcnt 660
 gcctnggnat acntggcgaa ctggncaaca nggaentnnc ngntggnaag gnccanggcc 720
 nttnntcag gctnttnncn tancttngga naaaattttg ttnggnnatt ctttggaana 780
 ttcaaccccc cntgggccaa naattgaacc cttncctcn gttgttgga cccanattgg 840
 ncantaaacc cacnaagnn ctttctaagg nncntttng gnntngnnaa ncccttggn 900
 cattnantnt naatngggga cnaannngn gnaaaggaa ntntgncang ngggnnnttt 960
 ngncnaggtg gnaangattc ngnnccnatn gaggcctntn ttntgggnncn aaacnntttt 1020
 ncaggggacc cnagtgtntt cnncaatggg nnnnaatacg 1060

<210> 980
 <211> 977
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(977)
 <223> n is a, c, g, or t

```

<400> 980
ttananaang ctggagctcc accgcggtgg cggccgctct agaactagt gatcccccg 60
gctgcaggaa ttccggcacga ggaggtcgcg gaggcagaag gcgttcctgc ccctgtcctc 120
gtcactatgt agctgagggg caggaggcct gttccacgtt ctggaagggtt cttgggctcg 180
accacggcag tagccccagg acttctagtc cttggcctcg gatccttgcc ggccgagggg 240
agtcgccgcc gccatgttcg gctgcttggg ggccggccagg ctggtgcaaa cagctgcaca 300
gcaggtggca aaggataaat tggtttttga cttggcctga taatnaaaat atcacccttg 360
tgggtggtttt aatgctggna ccagtcctt ttctgaagga anggaagctc tggctacttt 420
tcctatctga ttcaaangaa tgccngtatg gcaacttcta agnattggcc acnatnggna 480
aaccagtggc cntnttnaaa attcaggtnt taatttnggn aaggaacca ccncccgtn 540
gnacccttna tattggccnn acttcnnttn gtgcttnaaa tnggaattca anngnaatgg 600
tngcaagggt tggtnaacia anctctgggg ggaaagntgg tggggcccn agtggacca 660
nttacttaat ttaacaaaaa aagccnggnc caccttttaa naaattttgc ttaataant 720
tggtnngcct tcaaggncce anantnaacc ccaagtnccc ttttgnaaat ggttnntttc 780
ccnncaaann nggggntntn naaaangggg nnngaaaaac ntttttaaaa aannnnantt 840
tnncnnnnaa accctttttt tttttggnaa aacataattt tnnnaaaaaa aaaaattttt 900
taaaggggnt nntnnaaaaa ttngnnntgt tttnnaaaaa aaaatnnctt tgggnnaaaa 960
ccctttaaan nncnnan 977

```

<210> 981
<211> 940
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(940)
<223> n is a, c, g, or t

<400> 981
ttnnanaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atcccccggg 60
ctgcaggaat tcggcacgag ggtcctgtcc ctcttgaatc tccctccac ttccccttgc 120
tacattcttg tttctatgga tatatgaata ataaagaccg ttgactaaaa taacatgaaa 180
agctcccaca cacaagtgtg cacgtgcaca ctcccttgtg cattattcgg gtccacgaga 240
gggcctgtc ccgcagatg ctgaagtgat ggagcctctt gtctccggag ccaagggcat 300
gaacacactg tcggtcgtcc tctagggaca cctatgcttc cgcttcttgg cttttccatt 360
gcatccgtcc gtttctctaa cagaatgtcc ctgtgatgac acgggctccc gttaccagct 420
ctggctgtct cagtgaagt acagcttacc ctacgactc tttattggcc ctgggaaatt 480
ttgcttcagt actttattga aagaagcaat aaataatact ggggataaaa atagttcaaa 540
agtanactgg acatactttt gtcacatatt ngggaagtn acaaaanaat tantnggaaa 600
atngaattgat accattgaat tgncaaggt aaattaaagg cggaaccca tgtaaagana 660
catgctgtct tttgtnacc gaaanaccag ctgcataata aatttcgcnc cttgacctgg 720
aaaaaaaaaa aaaaaaaaaa tngggggggg gcccggncc caaattcncc ntaaaagggg 780
ggnnnnnnna naannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 940

<210> 982
<211> 998
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(998)
<223> n is a, c, g, or t

<400> 982
tnnnaaaag ctggagctcc accgcggtgg cggccgctct agaactagt gatcccccg 60

gctgcaggaa ttcggcacga ggctacacca gaggcggccg aatcatctcc acctcttcac 120
 gctccgtgat gctacattac cgctcaagcc tgctccagat gctcgacacg ctggtcttct 180
 cgagcctcct gctgtttggc ttgcgggagc agaagcagct cttggagggtg gagctatacc 240
 cagaatacag agagaactcg tacgtgccga ccaccggagc cattatcgag atccacagca 300
 agcgcatcca gatgtacgga gcctaccttc cgcattccacg cccactttca ctgggctcaa 360
 ggtacctgct gnacaacttt cccgatgacc tgcgccttcg ttggtgtcgc cagcaacttt 420
 cacctttctta agcgtanttg ggctcttaag ctacatgcag tgggtgnggg ggggcatctt 480
 ggcccnacag cgcctttttt tgnaggtaac attccgaaac cgaaaacgtt cccgcangga 540
 cattcaagcg aaaagggctc ntgccaataa nccagggccc caaggccagg angagtcccc 600
 cccagcttgt cacctgggta cagaaggacg gngaanaagcc acgccggatc ctttttggga 660
 aaaaaaggcc agcttgtccg aggagggaaa aaacagaacc aaccggcccc ttgaatgggc 720
 aaggaaggaa cttggaancc ccaaggccaa gtgatgggtc aaggctcctn ggnaanaagc 780
 aacnttttgn tgaacggaag gccaaacctg ggntggcttt tgggtttttg ncccctggnc 840
 cccaaaaaaa ccgnggggca agcttcggaa ancccccttt gngggctttt ttnccnaaaa 900
 gngnccccaa ttttggttcc aaatttcttt naaaacnana taagggnccc aanccccna 960
 ttttttnggg ccctttttnc ccccgggtt ttnttttt 998

<210> 983
 <211> 897
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(897)
 <223> n is a, c, g, or t

<400> 983
 aaagctggag ctccccgcgg tggcggccgc tctagaacta gtggatcccc cgggctgcag 60
 gtgatctaca aatgtggcgg gatcgacaag agaacaattg aaaagttcga gaaggaggct 120
 gccgagatgg gaaagggctc cttcaaatat gcctgggtct tggacaaact taaagctgaa 180
 cgtgagcgtg gtatcaccat tgatatctcc ctgtggaaat ttgagaccag caagtactat 240
 gttaccatca ttgatgcccc aggacacaga gacttcatca aaaacatgat tacaggcaca 300
 tcccaggctg actgtgctgt cctgatcggt gctgctgggt ttggtgaatt tgaagccggt 360
 atctccaaga acgggcagac ccgtgagcat gcccttttgg cttacaccct ggggtgtgaa 420

caactaattg ttggcggttaa caaaatggat tccactgagc caccctatag ccagaagaga 480
 tacgaagaaa ttgttaaggg aagtcagcac ctatattaag aaaattggct acaaccccca 540
 cacagtagca tttgtgccaa tttctggctg gatggtgaca acatgctaga accaagtgtc 600
 aatatgccat ggttcaaggg atggaaagtc acccgtaagg acggcaatgc cagtgggaacc 660
 accctgcttg aacttctgga ttgnattctg gcaccacttg nccaactgga caaacccctg 720
 ngtttggctt ntccaggatg tctatnaaaa tgggggggat tggnaactggc ccttgngggg 780
 cgngtgga aaactggtggtt ttcaaacctg gcatggggggg cancccttgg ttccagncaa 840
 tgggaaccaa ctggaangga aatctttnaa aaaggccccc ttgaancntt tgnngga 897

<210> 984
 <211> 1001
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1001)
 <223> n is a, c, g, or t

<400> 984
 gcctatagng agncgnatta cagtggcggc cgctctagaa ctagtggatc ccccgggctg 60
 caggtctttt tttttttttt tttncaaaat ttcnnaaagg gnnggnttnt tnttnccna 120
 anttttnncn nccccagnct nnnngnnttt tttttnaaaa annttttnncn tttnnntta 180
 aaggttnggn ntttttaaan ngncnggaan ccttnncng gcntnggggc cntttttaan 240
 naaaaaagg ggnntttan nanaancnt ggannnancn ccnnanncc caaaaaaann 300
 nttnnnga anagggctga aacccccng ncaanggggg nnnccccntt ttngngggg 360
 nnnngggggn naancccntn ccncncna aanngggctn aantaaaac ntaaaaattt 420
 nggttnggga acttnnnnt taaattnnc aaanggggnn ngccccngn annnaaaacc 480
 ntngnaaaan ngggcccn nnnnttttt ntaangnaa aagggccct tngncnngg 540
 gggnnnnaaa aaanngggg gggttncagn aaanaaaaaa tttnttttt ncnngggggg 600
 gggggggggg ggnaaaaaaa taaaaaagn ntngggccc cttttttnt annggncann 660
 annaaaaang nananttggg ccnggttna acctgncna aaaaanngg ggctggttna 720
 ccannanng ggggggggna aaaaaaacc cnnntttta nttaaaaccg nnnnttttn 780
 anccccacc ccnnaaanc ggaaanngn ntccananc ncgncgngg tggcccccc 840

ccnnaaaagg gccaaaatnn tngaaaaaac cccccaaccc nntaanangg gggggngccc 900
 cnnntctttt tttttttaa aaanggtngg gtaaaagggg acnttttgnc ccgggacacc 960
 nnggaaaccc ttnggttgt cccccnttt tntnngnngn t 1001

<210> 985
 <211> 1461
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1461)
 <223> n is a, c, g, or t

<400> 985
 ccncncnca ggcncntttt acnnnnannt tttttntnt anccctntcc ncncntnta 60
 ccggngccc cgnctactcc ncttngggg gtaccngncg nngcncnct ncnttgagnn 120
 ncactggact ncaccgagg ggcgggcgt ctagaactag tggatcccc gggctgcagg 180
 caattcggca cgaggcttgg tgataaggct ccaccaaanc ctgtaccaa gactattgac 240
 naccanngag tatatnatga aaccatagta catcctattg atgaacaggc tgcttatgat 300
 gaantacan atnaatntgc tnntactta aanacgacan acttctcca anatctctca 360
 tcnctacntc ancatanacc tcatgggnan aacagtaccn actntgngaa cangctctct 420
 acaggtatac cnaannttcg cattgtttat tagcnaaca angacttgcc tntngaaaac 480
 nnnattatnc cacanngcatt nnttatnaa attnacnaa ccntgttttg ntatnaaat 540
 naaagantcg tgaaaantac cataaangga ttaaattcat gannnctacc tggtttcaa 600
 acnnntctn aancntgcgt tncacattat annaattga naccaantgg nccgnnctnn 660
 ccnttcaaan gaatntttan ncatnnanng ccanatnga ccncnanncn cnaacnncn 720
 cntaaccnncn gaaaannnan cnacntnaa ncnatccttc ccaangcaac cnnctagtgn 780
 atccangtcc tnacttcggt aatcttatan tnggagncac ntcanttgt tttnnccan 840
 tnaatgngct natagntntn taantngnnn naggcctnnc ttntgncna tcnactttct 900
 cnacnaatcn atacgggana ntanattaat tntcttncn nangaatctc cgnancacat 960
 ncctntaatn ttcaagaat ccncccatg acannncgng cgnanttatt cgnatnatnt 1020
 ttagaancca cngtntttg aacgnttnaa gnncatngna cttnaacnat ntctanataa 1080
 cnatacnngg ccgatntnt tgnntgntc ttntacnac ngtantngna gaaaattatg 1140
 tanganngt acngctanc nnaatatncc tcnngacggg agcttaantn tantnttana 1200

cantgttntn cgaagntacn tacantatcn acgcattntg tngtcgtatn cneccacgnt 1260
ctctangnng aaacntatgt cnnctnncgc tanngcnnn nnnactctc agntanngcn 1320
cntgntccgc tntnttntna cnnanncnca actataantg tncnttngcn gtaacnccac 1380
ttctcnnaac gtctcnngcn nancatacga aatatcgttt tcgctttttn acngaattgnc 1440
cnetctatcg ntacnatecc c 1461

<210> 986
<211> 939
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(939)
<223> n is a, c, g, or t

<400> 986
naanatctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagggg ggttcagagc tgctgcctt aacttcccct tcttcagcgt 120
ctgttttctc tctccttctt gcttgtaact ccccatgctc cctgctcccc cctctccctt 180
cctgaccagg aaggacatga aggggtgaat gccaggaaca aatgacaagg aagccctcag 240
gaggataggg ccatctgngg gctgancctt ctgnctcctt ncanctgncc cgnctncagg 300
cccttaaang gcacatnang ggggngngct gntgggtggg tatnccacct ncanccaca 360
nnactcattt gnaattttta ttatgctgga atanctattt ttggttcctt ttttttcttt 420
gggggggggn atgngngngn gtatgnaaat atataaatag cgagnttcat taaaacagac 480
tgncccacac caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaann 540
ncnngggggg ggggggnnc ccccanttnc ntntnnggg ggggggnaaa aannnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnntntnnn nnnnnnnnnn nntntnnntn tnnnnnnnnn 660
nnnnnnnnnn ntntntnnn nntcnnntn tnnnnnnngn nnnnnnnnnn nnnntncnnn 720
nnntnnncn tnnnnnnngn nnnnnntnn nnnnnnnnnn nncnnnnnnn ntntnannnn 780
ntntnnnnnn nncnnnagnn nncnnnnnna nncnnncnnc nnnnnnnnnn nnnncnnnnn 840
cnnnnntnnn nannnnnnnn ncnnnnnnnn nnnnnntnc nnnnnntnn nngnnttncn 900
nnnnnnnnnn gnnnnnnncn nntncnnnn tnnctntcc 939

<210> 987
 <211> 976
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(976)
 <223> n is a, c, g, or t

```

<400> 987
tttnagccct atagtgagtc gtattacagt ggcgggccgc tctagaacta gtgggatccc      60
ccgggctgca ggccgncgnt gttgcanntc cgcagccntg cgtttnanct ttccagnttg      120
ngtcctttgc ntngccaccc gccnnttngc ntgggttgccc ctngnaggcn nacnttannc      180
nnnanaacaa aaannngnng gccttnaagn anccggccaa cngctngnta ttaanttcac      240
tcaaagccac cacggcggn gnatcggggc accccacgtt atgctgcaag angtgctgat      300
atnatggctg ctcttttttt ncacaccatg ctctanaggg cngtgnatcc cnnnancnct      360
canaannacc nttntnttct ctanagggnc cntgngncnc ntattntgtn tnccgtntgn      420
tctaaatntg tntntntgcc agaacagatc tgntgnatna tgangaatan catctncgac      480
ntggacgggc actnntgtcc aanaaacaag tcttcaccga tggngncnac tggcttntctg      540
gnccagggcc ttgnagcctn ttgngngatg gactacacan gcnantnctt ccacaanagc      600
cactaccggg gtctattgct tgctggaaag acggggaagc ttgtaagatn cctctgngag      660
gnanantgaa ttttcttcag catttntca acnggggtgga acctttnttt gccnctttg      720
ntttgacaac caaccggncn tgaaaaaaga accntnccct gnctcgntgg ccnaaantng      780
aatgngnaat ctanaaanna ttnntttggc nattgccttt gggaaggtan cncttntttt      840
tnannggnag ggccncaagn tngnaaagga nncttggggc ntggcctttt tnggganggn      900
aaaaaaaaacc cgncccccnt ntnttttatt tggccanaac ctttcnnggg gcccnantt      960
ttaaaaggag atagan                                                                976
  
```

<210> 988
 <211> 976
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(976)
 <223> n is a, c, g, or t

```

<400> 988
tttnagccct atagttagtc gtattacagt ggcggccgc tctagaacta gtgggatccc      60
ccgggctgca ggccgncgnt gttgcanntc cgcagccntg cgtttnanct ttccagtntg      120
ngtcctttgc ntngccaccc gccnnttngc ntgggtgccc ctngnaggcn nacnttannc      180
nnnanaacaa aaannngnng gccttnaagn anccggccaa cngctngnta ttaanttcac      240
tcaaagccac cacggcggn gnatcgggcc accccacgtt atgctgcaag angtgctgat      300
atnatggctg ctcttttttt ncacaccatg ctctanaggg cngtgnatcc cnnnancnt      360
canaannacc nttnttttct ctanagggnc cntgngncnc ntattntgtn tnccgtntgn      420
tctaaatntg tntntntgcc agaacagatc tgntgnatna tgangaatan catctncgac      480
ntggacgggc actnntgtcc aanaaacaag tcttcaccga tggngncnac tggcttnctg      540
gnccagggcc ttgnagcctn ttgngngatg gactacacan gcnantnctt ccacaanagc      600
cactaccggg gtctattgct tgctggaaag acggggaagc ttgtaagatn cctctgngag      660
gnanantgaa ttttcttcag cattttntca acnggggtgga acctttnttt gccnctttg      720
ntttgacaac caaccggncn tgaaaaaaga accntnccct gnctcgntgg ccnaaantng      780
aatgngnaat ctanaaanna ttnntttggc nattgccttt gggaaggtan cncttntttt      840
tnannggnag ggccncaagn tngnaaagga nncttgggcc ntggcctttt tnggganggn      900
aaaaaaaaacc cgnccccnt ntnttttatt tggccanaac ctttcnnggg gcccnantt      960
ttaaaaggag atagan                                                         976

```

<210> 989
 <211> 971
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(971)
 <223> n is a, c, g, or t

```

<400> 989
tnnnaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg atcccccggg      60
ctgcaggcgg gcgcggcagg agctgacatg gacccaaatc ctcgggcagc cttggagcgc      120
cagcagctcc ggcttcggga gcggcagaaa ttcttcgagg acattttaca gcctgagacg      180
gagtttgtct tccccctgtc ccacctgcat cctgagtcgc acagaccccc cataggtagt      240
atctcatcca tggaggtgaa tgtggacaca cttgagcaag tggagcttat cgacctgggg      300
gatnaagatg gagcggatgt gttcttgctt tgtgaagacc ntccaccaac tccccaaacg      360
tttgggggtg acnagcgtcc cgaggagccg nagcttgcca gtggcccacg ccagaacagg      420
aacgnacgtc tcgtaatttc ttctttgtct tccaattctt caaccaacca aaaaaggggc      480
natgccagtg gacggcggac caaaacacgc cccttggcac antcttgaca aggagaagga      540
tggaggcctt gatggcgggc aaaagcccga ancttgacgt tagcagcggc cccccactta      600
caaattgggg gagctgcctc gtttccctgg gaaaccccag gcctggccan agcccttttg      660
aaaaaaacca aactntttta tggcantagg caccaagggg aagnanagcc ggcccccaat      720
ggtgtgcctt tcttggaac cacccccngt tctggcttta atggtaaccn ttccccctgt      780
gggatccttt ttggtatng ntaaaaaaat tttgggaaat taacttgggc cntttggnaa      840
tntaantttt gaaacaaaaa nanggncccc ttgnttttan gggggganaa aaaantcccn      900
aacncccccc cgggnttttg gtttaatggg tgaaangggg gnccccccgn ttgggggaaa      960
tgggaaaatt a                                                                971
  
```

<210> 990
 <211> 988
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(988)
 <223> n is a, c, g, or t

```

<400> 990
gaaaaanctg gactccccgc ggtggcggcc gctctagaac tagtggatcc cccgggctgc      60
aggnnnncga nntcatgctt ntntantnt ttanntngan gggggncnng gttctcangg      120
nnncctanag nggggcgaan nncatgagct ctagccntgc cntganatgc ccatncntna      180
aaaaaannat gtnnaaccag nccccannga aactctgngn cccnnnaaaa nttttnttn      240
tttnnncngn cgtttttaggg ncacntttcc caancacagg gntttntntn nnnaaatntc      300
catgcccntg gttaaaaaaa annnttgggn cngatntntn cccccagnnc aaanatgggn      360
gnncagatnt nanaaaaaaa nntntnttgc ttnggccncc antnngngnn nnnntgggn      420
gctgtgcccc ccaccaggg tntttgcctn ccctttagna gnacacccca ctggacctgt      480
gcccccaacc accnaacatn aaccctccaa ngnaaaaaaa aaaaaaaaaa attttttngg      540
aaccanggg ncntttttca naaanntntt naanngggng gggggncccc canttttnaa      600
aaatttgggg gccttttttt tcattttttt ttccaaaaaa aaaaaaaaaa naattttttt      660
tttttttctn tnaaannaat tttnaaaaaa aangnggggg ggngnnggaa aacnccgggg      720
angggggntt tttnccccca ttttttngg ggnggggggg ngggggaaaa aaaaannncc      780
nccngggntg ttngaaaccc ccccccncc nggggggggg gaantttttt tttgngggtn      840
cccaccccat ttttgccaa aananaantt tttttaana aaactntttt tttaaaaaaa      900
aaancccan ttncccaaa angggggggc cnccccac gnngttgggg gggggggttt      960
tttnaannaa cntttttttt gggggggn      988
  
```

<210> 991
 <211> 978
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(978)
 <223> n is a, c, g, or t

<400> 991
 naaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
 caggataaga acttgacctg tgattnttct ctccctnccc tccnctgca ngtgtgggtc 120
 ctaggaaagg acctggnnca ccttgggtng aaactcaaaa aactttccga ngcnccacca 180
 tnagcnggnc ccagctgaac actcncccgt gtaattttaa acatctagca ntanataatt 240
 gnggtggtga cataaaggac cctgnttctg tagagagaaa agcttancat aattgttgtg 300
 aaatgtaaca tgangcaact aactngnant tttttttgtt nttaaakatg tnngnttttt 360
 taaaatagan tgatanaact ttgccagnct ttaaaaanct tggcttaatt nantatatta 420
 atctgtccgt gcanaantaa aaccancctt taaaaatgtt aggggaatna attngaagct 480
 ggcgaatagn aactgatttt aagtttggtg ttatgaaaca ttnaagggtt tttgtccctt 540
 aattgataat catgtttaan angtagtcat ntgcgggtat aagctagtgt tgcttgcttg 600
 cantattcat tgccccctan angaaagnga aaatggattg gnatggaacc cccaantta 660
 aagtaaaaga atggntgaag ttttttttan aaatttnccc tttccaaant ggaaaacnnc 720
 ctttttaact gggcggtgta acaaatacca aaaanaangn tggnttttnt tggcccttgg 780
 gaaaaaaatt taatttcccc ccccggtttt tttnnnncng gggggaaaaa gggggcctta 840
 aatnggnaac ttaaggggtt catggccttc cnttttaana anccnggga accgnntngg 900
 cccttccaaa cnttttttnn nccangnggg gttttttang gggggctttc ccccgggng 960
 gngaaactcc caaaaaag 978

<210> 992
 <211> 958
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(958)
 <223> n is a, c, g, or t

<400> 992
 ttganaannc tggagctccc cgcggtggcg gccgctctag aactagtgga tcccccgggc 60
 tgcaggaatt cggcacgagg ctacaccaga ggcggccgaa tcctctccac ctcttcacgc 120
 tccgtgatgc tacattaccg ctcaagcctg ctccagatgc tcgacacgct ggtcttctcg 180
 agcctcctgc tgtttggtt tgcggagcag aagcagctct tggaggtgga gctataccca 240
 gaatacacag agaaactcgta cgtgccgacc accggagcca ttatcgagat ccacagcaag 300
 cgcattccaga tgtacggagc ctacctccgc atccacgccc acttcactgg gctcaggtac 360
 ctgctgtaca acttcccgat gacctgcgcc ttcgttggtg tcgccagcaa cttcaccttc 420
 ctacagctca ttgtgctctt cagctacatg cagtgggtgt gggggggcat ctggccccaa 480
 cagcgcctct ctttgcaggt aaacatccga aaccgaaaac gttcccgcaa ggacatccaa 540
 gcgaaaggtc tctgcccata agccagggcc ccaaggccag gaggagtccc ccagcttgt 600
 cacctgttac agaggacggt gagagccacg cggatccctc tgggacagaa ggncagctgt 660
 ccgaggagga aaaaaacaga aaaaacngcc cctgaatngg cnaagganga aacttgaac 720
 cccgaaggnc cagtgatngg gttcaaggct tccttgggga aaaatgcaac ttttggttga 780
 acgggagggc caaacctggg cttggccttt ttgggcnttt tggcccctgg cccccaaaaa 840
 naaccgngg ggcagnttt cggnaccccc ttggngggg cttttggtcc ngaaaagggg 900
 ccccnathtt gggttcant ttccttnaaa ccaaataagg gccccaantt cccccntt 958

<210> 993
 <211> 1412
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1412)
 <223> n is a, c, g, or t

<400> 993
 gncctantag tggngtcggt attaacnggg ggcattccnn atttatcaan ttntttgtnt 60

tnnencaate cnagnntecn aactteggcn ctctnangen ntnttcccta ccccenttten	120
ccnacantnt cctacnttcg tcntaaatgg ngctctctnt ngncgcnta ctcnncatnc	180
tctcnttncn cttnccctc tcttcttcg tttcacggtc ncatcnnnc tggngtngn	240
ntatgagngn nnntcanatt actctctcnc nccgaggncc tctacttncc nnnagnnnnn	300
cctgccctcg atnngtctgt nnantatnnc ncnnnnnnnc ctantgaccc cagnngnctn	360
gctgtccnt atctnnnnan nancntntc angnaggggn nnnntnttn ganenggaat	420
tcgnnagnna tngatatngn ntaggnngc ttngnactcg nangtagtng tnnncntnt	480
ggntntagaa tnanaanncn nnggnatacn tntgnnctga tttntgtcn gtcngcnng	540
tnancnctnn tnnnggtnc tatntntnt nccggttgn ngangtntnc nattantann	600
tcngngnna gnnttnnta nacnnangna taattngnn nccggntnac cantntnnnn	660
ctngnatcnc tagnaggaag gctgncgaan cgnttnnngn ggnetggng annntcnng	720
gnggnccgn nngntnng cnnngtgn ngnnantaan antatntnan nnatcnntn	780
gtcngctggg nnatanntan cgactgtcn ntancgnan nncgnaann gngnctntn	840
taattntat ncagngcnca tcatggngn atcaaagant ctncntggn naccagcann	900
cagggcngt naggcanttg ncnntnagt ccngtncn agntngcntg aagnncaatt	960
tgnnttnnc ncnngccan aattgnccc atntggnnc tntagcnnc tgnngcancn	1020
ngntngcng anacntnng tntgnccac aanntgtng ggtctntag cagtgnenna	1080
gcgcgcgga ctgtatcgc cncanacgc nccanggac cncnngtgt gcantnacna	1140
ntctcnnat nactannag ncananngt ananaatgc nnnanagnnn acgagatgn	1200
cgcatntnga gnnagagaac aggtgngctg tngcgcgcg cngngcnca cgcagatcgt	1260
natagatata catatanann ntcttancg gcgcgathn cgcgnnnnc gacngcgc	1320
ncggctnncg ctggantgt ncnanntag ntngtctcn tncgtgtn gacngngang	1380
nanggantca tngnntntn gttcgtcgc cg	1412

<210> 994
 <211> 1104
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1104)
 <223> n is a, c, g, or t

<400> 994
 tttagcanc atctggagct gcaccncggg ggcgggccgct ctagaactag tggatcccc 60
 gggctgcagg cactcgcctc cagttcgtc cgcgccctct gcaaccatgt ctgacaaacc 120
 cgatatggct gagattgaga agttcgataa gtcgaaattg aagaaaacgg aancgcaaga 180
 gaananncn ngtcttcnnn anannngact gancnagnna cactntgtac nntagannta 240
 angganantn cantgtcnna annccanctt gctttcnca nncnngagnn gnntnttttn 300
 nntntctntc ncnttttctn aaanncaaga ngccntcttg cacngtgtt nnctngtnan 360
 ntngagtng centnccnt nntnttgncn tttatnnntn ttcntttgt ttancnngan 420
 aannccntc ntatnctnan tncacnctt ncncttaga nnnnagtng gnntcnagat 480
 cagcttnnat ancngantcn ntgtannnnn nnttcttnn nntgagtnat cnttntngtn 540
 natttnanng antgttttga ncagnatntt nanacnnncg tttactcnnn cgcnggagnt 600
 tcnagntnnn ngngctcttn tnttngaca canntnannn ncatgncttg cngttgtatc 660
 tcncgatntt tncntanant anntnaatg catnnngnct gttannncha ngcantngtt 720
 ctntatcnnn agnnanntng ntcnangant ncnnnangta tttatggtnc ncnctgnnt 780
 cttacnntga ccnantngnn attnnannct gnnnttcgn nnttttttn gattncggag 840
 cacantctnc ngtnctnnn atncagtttn nnaatntctg tntnngctnn tcgagtcnan 900
 gttgntttnt ccncnntgt nctcancttt ggantngtcn tataataacc tnnntgtcnt 960
 nntnaggatn tannctannt ttctcngtac ttntctctc nntntcccc taantttnt 1020
 annccctttc nntgttnnnc natnnttcgn tctngngan cgannactat catangtnag 1080
 ctttncctat atnctctac gtcg 1104

<210> 995
 <211> 1697
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1697)
 <223> n is a, c, g, or t

<400> 995
 ntatantcta gangacntnn acnancnnnc nactatnntn caannctctc cncactnntt 60
 ttngaagnta cccattaacg aagnttcanc cinctacagan ggncatttct tntncntcn 120
 tcnctcatca cagatntgca nncntacact ccacnnnntt nctnntncnc nnanaacct 180
 nnnncnnttn tttnacntat tactancacn attnctacan atcanacgnt acccgngnnn 240
 nctnctactt tcnncnctaa tantttanaa nacactanca atcaanttat actcctttta 300
 anttcantat anttnttnan nnnctcnntc ccacactact tctacnctc ttncnantnt 360
 ttaannattn cttattatat nanncccnag tntncnacnt tnannntata tatntttcta 420
 aannnctant nngccgnna naccncaacc aaccttnttt tctcnaatng tccctgcgcng 480
 ncntnnnnca anttatanat nanacatnnn nannnnncan ncacggnctt acnctttan 540
 tgnatatctn nmnttanccc cntanagact cancntatca nncaatatta natatctana 600
 aatatcnnc tcnantcatn taccttnta cnatcactnt cnnnttntaa tntnnntaat 660
 ctgntnntna ntntnttnn atntanacta atanaancnn nccacgacch gccaanctnn 720
 tctntntnc ninctacnnan nagctactan cgnctncnt cangtnant tntttctacn 780
 aatcanntcn atnaanncca cccctanccn ctncnnannc ttcnctcacc ttatngctat 840
 tgcncctncc cnccttntn tnttctcacc tgtancntag angnnnannc gnnccctna 900
 cntctatanc cntnngtctt ttannnnana ctannngta tcnncaannn atnangtctc 960
 tntngtctt ccttccgna acatatcana cnnnnnanat ncnncnct tcnancnatt 1020
 ccaactnttt attctacatt atatttanac cnnnnnttct cncctgttac cttncacch 1080
 tctnntnccn tactnccnac cnatatgna cngnctcaa ncatctannt acttatanca 1140
 tctacaatna tntntangat cgncnntac ncnatntatn cannatactt tcnctngant 1200
 nngcnnatn nntttctat tatttanntc tntctnaa ttanccntac agnacnncga 1260
 anntnnncat ntantatctt tcnnacangt attcantcag nacnatntct ggctttacat 1320
 canaattcta tcaanatna atgcgctnnn ttanntantc annntcttnc tgcactcatn 1380

nntctntntn tgactannng cnnnatntnt cnntntctnt gaacntacaa atatataaat 1440
 ntgnnatcct cncnagtnta tcnntttatn nancntatac acgcctncga nncannantn 1500
 tccatctcan ctcatntana tctctanaan aacncaaaaa tntttacatn tatnnnatan 1560
 ntatnnaata nacatacgnt acattattnc ngcnatnnta tcncntnaca ctacnancat 1620
 nctaatectc tacgacgncn tnacaccata catnngatat acnacaanat atatnacnaa 1680
 tcnnnaaacn atcngcg 1697

<210> 996
 <211> 976
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(976)
 <223> n is a, c, g, or t

<400> 996
 ttnagcctat ngggagnngn atnacagtgg cggccgctct agaactagtg ggatccccc 60
 ggcnggnngg tttttttttt tttttttttc aaannaaanc cnnttttttt naannnnngg 120
 nngggnaaaa nccgganncc nnnnccnngt ttngngnncn nnntttaann ccnaggaaac 180
 nttnttttcc naaanngnan ngggnaatnc cnaaannaan ncngttttt tttaaaangn 240
 nnaannaccc ngaaancctt taaannaaaa nnnnttttnc tnaattnaaa aagnccttaa 300
 tttaaaaaaa anngggggcc ntttnaanna aaanggnntt cccaaannnn tttttnaaac 360
 ngnnnnccnc caaaaaaaaa attccggggg ggggnnnctt ngggattngg cccnnccnnn 420
 nnnnggnnaa anggggnnan ncaaccccc ggnntttgnt tttttttcna atnccnaaan 480
 gggaaanccc ttttngggaa gnncaaagg ggncccccc cctcccnaa nngtncngna 540
 agggccctt tntttttaa agggttaaaa acccattnn gtttccgncc cntgggcaa 600
 tgtgnggggg aaaaancna aanaannnn ntttgggggc ccnnccccg gggaaaaaaa 660
 aacccttccg atatttggg aaaaanngg gggcttaaag gggccaccg ggtttttngg 720
 ggtttncgg gngggcccc ccccttttt tttctctggg gggaaaaaaa aaaggnnaa 780
 aancnagnc ctttttttt nnaatnnnc cnntttant ttttttttt tcccccccc 840
 ggggggaaaa aannttttcn ctggggttg gggcccccn ttttngggg gggaaaaaaa 900
 naaaggngc ccccccttt taaagggnn ccccnccct ntttttttt tttttttan 960
 aagnggggg ggnctc 976

<210> 997
 <211> 976
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(976)
 <223> n is a, c, g, or t

<400> 997
 ttnagcctat ngggagngn atnacagtgg cggccgctct agaactagtg ggatccccc 60
 ggcnggnngg tttttttttt tttttttttc aaannaaanc cnnttttttt naannnnngg 120
 nngggnaaaa nccgganncc nnnnccnngt ttngggnncn nnntttaann ccnaggaaac 180
 nttntttcc naaanngnan ngggnaatnc cnaaannaan ncngttttt tttaaaangn 240
 nnaannaccc ngaaancctt taaannaaaa nnnntttnc tnaattnaaa aagnccttaa 300
 tttaaaaaaa anngggggcc nttnaanna aaanggnnt cccaaannnn tttttnaaac 360
 ngnnnnccnc caaaaaaaaa attccggggg ggggnnnct ngggattngg cccnnccnn 420
 nnnnggnnaa anggggnnan ncaaccccg ggnntttgt ttttttcna atnccnaaan 480
 gggaaanccc ttttngggaa gnncaaagg ggnccccc ccctccnaa ngtncngna 540
 agggcccctt ttnttttaaa agggttaaaa acccatttn gtttccgncc cntgggcaa 600
 tgtgnggggg aaaaanccna aanaannnn ntttgggggc ccnnccccc gggaaaaaaa 660
 aacccttcg atatttggg aaaaanngg gggcttaaag gggccaccg ggtttttngg 720
 ggtttncgg ggnggcccc ccccttttt tttctctgg gggaaaaaaa aaaggnnaa 780
 aanccnagc cnttttttt nnaatnnnc cnntttant tttttnttt ttccccccc 840
 ggggggaaaa aannttttcn ctggggttg gggccccc ttttngggg gggaaaaaaa 900
 naaaggngc cccccctt taaagggnn ccccnncct ntttttttt tttttttan 960
 aagnggggg gggntc 976

<210> 998
 <211> 1059
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1059)
 <223> n is a, c, g, or t

<400> 998
 ttgaaaaaat ctggagctcc accgcggggg cggccgctct agaactagtg gatcccccg 60
 gctgcagggn ntcgcgncna gagctnacat ggacccaaan cctcngncng ncttgngcg 120
 ccagnagcta cnnntnnggg agcggnacaa attnttnnan gacattttac annntganac 180
 ggantntgtt ttnccctga ncaacntgna tcngantng tacananccc gcatngntan 240
 tatctnatan ntgaatgtga atgtcaacgc anttnnncaa gtgnanctaa tcgnantgct 300
 ggatcaatat agaanggatg tgattntgtc cttgggaaca ncntacancn nntntnaaga 360
 nggttggccg nnancaancc ntnnttaggt tnngacctnt nncagttnta angccaaaan 420
 acaaataattt ntgggtctnt tngntntttg ggnnaaccn ccccccccn aaanccnaaa 480
 annnnnngcg tttttgngnn gnnctggtg antttanntt cnnngttttt gnaggncctn 540
 ttgnttagga atgaananat gggnnctccc cttnnnnntt tttggccatn anccccctta 600
 acctttttcc tccccnctc cccccccct tttttcccc cctttttttt ttttttttc 660
 cccccctcn tctccnccc cctnaagggg gngttantaa nnnttttttg ccccnattaa 720
 ctnnccnatt ggntnnctgg ngnagggncc caatgttang gnnnatcttt ttaaggggna 780
 ngcttngnnn annantgtaa atataaaagn ttgnacctc nntttnttta acaaattttt 840
 tgtcttnata ttttttncc ccccccccc ccccccnnt ttttttnaa attanattan 900
 tatcattatc tnnntnttn nggnggganc ctagatnatn catccnntn cttttaaatg 960
 gnggggggan annanaanca cnnantanc tctnttggtt tnntcctttc attttnanct 1020
 anttgnctnn caatnttttn cantntattg taccanct 1059

<210> 999
 <211> 965
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(965)
 <223> n is a, c, g, or t

<400> 999
 ttnaaaaaaac tggactcccc gcggtggcgg ccgctctaga actagtggat cccccgggct 60
 gcaggaattc ggnacgaggc cggnttcgga tcgngagtnc gngccgnagc gngcaccgcg 120
 gnccgnanct atggcggnng tngtccgant agtttattgn ggcgcttgag gctacaagnc 180
 caattatntt cagctnaaga anaagttaga anatgagttc cctanccgnt tggacntctg 240
 cngagagggg actncccagg nnaccggctt ctttgaagtg tncgtancgg naaagctgnt 300
 tcactccaag aagggaggcg atgnntacng ggncacggaa agcaggttnc tgagctggtg 360
 cccgcnatca annccgtttt gactcaggct ngatntggcc taaaggnata aaccagtaat 420
 ngtggcccaa cccctntngg nagaccntta ttgacangaa ggactgaant gtcttttgga 480
 cncntggtcc ttccctgatg ttttgccggc cnccgtnngg aacaaanatg gacaccctg 540
 nnccttttct ttgcataccg gtgtccatga anacccccga cgctgngcct ggtggccttn 600
 cccananata atttgcnttg attttcaacc ggcccttccc ccaatgttn ccttttaatc 660
 ctgggggggg ctnggggggg gcctactnta agctttcntt ttcaaagggg aancttgaaa 720
 ggatnatcng gaatgaatga gtcttnaaaa tttaancagn ggatggnaac aactttacaa 780
 anccaatnaa anggggggatg aaggttaacc caaaaaaaaaa aaaaaaaaaa aaatttnggg 840
 gggggggggc ccggncccc aaattncccc tttaagggng ggnnnnnnna aaannnnnnn 900
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
 nnnnn 965

```

<210> 1000
<211> 964
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(964)
<223> n is a, c, g, or t

<400> 1000
ttnnnnaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg gatcccccgg      60
gctgcaggcc gtgacaaaat gtgctccatg gtcaaaaagt ggcagaccat gatcgaagct      120
cacgttgatg tcaagactac cgatgggttac ttgcttcgtc tgttctgtgt gggttttact      180
aaaaagcgca acaatcagat tcggaagacc tcttacgccc agcaccagca ggtgcgccag      240
atccgcaaga agatgatgga aatcatgacc cgagaggtgc agacaaatga cttgaaagag      300
gtggtcaata aattgattcc agatagcatt ggaaaagaca tagaaaaggc ttgccaatct      360
atztatccac tccatgatgt cttcgttaga aaagtaaaaa tgctgaagaa gcccaaattt      420
gaattgggaa aactcatgga gctacatggt gaaggtagta gttctggaaa agctactggg      480
gatgagacag gtgctaaagt tgaacgagct gatggatacg agccaccagt ccaagaatcg      540
gtttaaaatg cagactctta atggtgacaa ataaaagatc ttatttgtgg tnnnanaann      600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      660
nnnnnaanng gggggggggg ggccccccc cntttttttt ttttnngggg gnnnnnnnnn      720
nanaaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      960
nnnn                                              964

```

<210> 1001
 <211> 983
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(983)
 <223> n is a, c, g, or t

<400> 1001
 ttgancaann ctggagctcc cgcggggggc ggccgctcta gaactagtgg atcccccggg 60
 ctgcaggacn tnacnacgag ggctncatgg tcannanncg gcanaccatg atngangcnc 120
 acgtngntgt caagactacc gntggatact tgnttctctt gtntctgggtg ggntttacta 180
 aaaagcgcaa cctnatattc ngaagacctc ttacgcccag caccnccagg tgctccagat 240
 ccncatgaag atgatggnaa tcatgaccn ataggtgcat gacaagtgac ttgaaagagg 300
 tggtcantac attgattcca tgatagcatn ggaaaagaca tagaacaggc ttgccantnt 360
 atttatncac tccatgatgn cttgggttnna aaagtanaaa tgctgaagaa gcccaaattt 420
 gaatngngaa aactcatgga gctacatgga gaaggtatgn agttctggaa aagctactgg 480
 ggatgagaca ggtgctaaag ttgaaccgag ctgatggata cganccaccn ntccnngatt 540
 cggtttaaaa tgcagactct tatgggngac aaataacaag atcttatttg gggtggtnaa 600
 agnttngctc ctatctanaa cagttttaaa aaatgtacca ngngnaattt tatagaattt 660
 tgaaagttta cattttnttt tttttngggg gnnggcgctc nnnccaccct ttntnntnaa 720
 ttgttntnaa agtggccttt tcccaaacct ngcttnaaaa cattngtttt ttttaatann 780
 acnttaaaaa aaaaaaatn cttttntttt ttttaagnnt nntnnnctnn ntcnnnnntt 840
 tnntntcttt tnntntgngg ggggggncce cncnnnnccc nattttnnnn tttttttnnn 900
 tgnnttcctt tnnaaaannc nnnnnnnntn nnnnnnttnn nnnntncct nnntnnnnntn 960
 ttnttntcnn ntctnnnnnn ncn 983

<210> 1002
 <211> 1505
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1505)
 <223> n is a, c, g, or t

<400> 1002
 nncnngcna accantcttt tntntntnnn ntntnnnnnn nntnnccccc cnncttcccc 60
 cccccccctc ncntaanctt ccacanataa nggnnnnancn tannnttcgt tcnccctttt 120
 gnagncccac tggagctccn cgcgnggcg gccgctctac aactantgga tcccccgna 180
 tgcaggnaat tcggcacgag ggagtttttt tttntttttt nccccccccc tntctnncgt 240
 nctnccctt aannactttt nttnancccn ctctantctt ttccacnncn acctnccct 300
 ntttntctac ancccnant cccccctc atctnaance ttctntctct tncatnnata 360
 tntntctac acccanaaaa ncaaatnnnc ctngacnt ctnttcnnn nncnaaann 420
 ntancaannn nntnctnnnn nnannnnaaa ggatantann aaacananan ngttaannnc 480
 ncttctnntt tntcnnggt ntannntaan ccattactga nctgantct ctntntct 540
 nggtngant cnnantctc nnnatnaant ccanhancn tatacnnct ttctnactaa 600
 tcnntagta nnnatnctnn tcnnnnnnn ngntntgtnc nnnnaannat nnnantnnat 660
 ccannngtt tncncctcc tangctnct nannnnnnn tnttcnnaa nntganatcn 720
 ncnncnct nctntance cctctcnnn aancagtngn cngnnntnt aaaatatana 780
 accatcnnn acnactntt nctantacna cnggnactca nggtcnnnat nancattaaa 840
 tccgntantn ncnncgncn nnnacnnant attnnnctt atccaanat ncneggannt 900
 tnttagntn nnttntntn ancgctntat cncnccgt actnaagtc nttnactgca 960
 tntaggatcn ntcgngnnn ntctntcnc caccgtnnn nttnnnnnct tcatangtgn 1020
 gcgantacga gnnccgnt nnnatcnc ntatannata tacttcgctt tcnncatgc 1080
 nctntcann ntnacagtc taccagnt gcagncgt ttactctgt nctctncac 1140
 acnntnnccg nnannntnn nacatnactc tnnngctat atcacaccgt nnnangnacn 1200
 tatnctnat ntcnganan tncacncta atantnacn gngatntat aatcgcatn 1260
 ctctncatn tntantctga ttantntc nctcacnn atnttagcan tcttnnagag 1320
 tntnnntna cnnnacacn anctcncat tagtntnga tactcttna gncggnncc 1380

tcttnacnct cgacgcgtcg tatanntcac nncnancnn atgnnnnaca tgtcacgtct	1440
catcnnacac atttgcggna tnatctcaa nanatncna acgtcnnncn atttatntct	1500
ncgcn	1505

<210> 1003
 <211> 969
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(969)
 <223> n is a, c, g, or t

<400> 1003	
aaagctggag ctccccgcgg tggcgggcgc tctagaacta gtggatcccc cgggctgcag	60
gcactcgtc gcagttcgt ccgcgcctc tgcaaccatg tctgacaaac ccgatatggc	120
tgagattgag aagttcgata agtcgaaatt gaagaaaacg gaaacgcaag agaaaaatcc	180
actgccttcg aaagaaacga ttgaacagga gaagcaagca ggcgagtcgt aatgaagcgt	240
gcgcgcgcag tatgcactgt acattccaca agcattgcct tcttatttta cttcttttag	300
ctgtttaact ttgtaagatg caaagagggt ggatcgagtt taaatgactg tgctaccct	360
tttcacatca aagaatggag aactactgac aacgtaggcc gcgcctgcct ctcccatctg	420
cttgtgtggc tggcagggaa ggaaaagaac ttgcatgttg gtgaaggagg aagctgggtg	480
ggacgcagct gaaatctaga gtaaaaagct ggtccaaggt gttctgcggg ctgtaaaatg	540
cagtttaatc agaagtgcc tttttttttg ttggtcaaat gattttaatt attggaatgc	600
ccaatttttt tattatgcaa aataaaaagt tttaaaacct gaaaaaaaaa aaaaaaaaaac	660
ctnggggggg gggcccgnc ccatttccc cttttngggg gggnnnnnnn naannnnnnn	720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	960
nnnnnnnnnn	969

<210> 1004
 <211> 1309
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1309)
 <223> n is a, c, g, or t

<400> 1004
 gtgnaagggg ggnncgggtg tnggcctttc ttinntngan ncnatcngga gctncaccnc 60
 gggggcgggc gctctagcaa ctacgcnatc ccccgggctg ctaggcntgn ancagatntt 120
 gantnttatt catctttttc nnnaccctnc tttnttntnt ctggngnact aaaaggcccn 180
 naannacnan gttttatnat aannncanga nctgattacc atntatanan ancngcaacn 240
 gcganacncc cnttgangaa acaacgaggg gaccaacaag cngatttncc cggttattat 300
 tnnncctgc gnnttantaa ggntttntcc tanctcggn ncgcccntnt nagnaacnta 360
 ttccccagc cctananatg nccccatant nntnatactc gacttaaccn nagnanntct 420
 ncgtntgtt nacgnngnnn anacnnantg aactncctgt naacantggg gntcnaaggn 480
 cnatagnent gaattnatct cnccacntgc ctnnnngngg ncannncntt naanngttt 540
 ntatatntng atatgngtt tgcatntctn ncnaaannng gantcntann anaccgnta 600
 cntannngc tatctacccc cnangtcntn tcnccnccaa gacntntntt ctantctact 660
 cgaangnatn cccnanganc gnttatcnna ctctcncct tgcgtnttc nctgattcac 720
 gncatnantt ncnnttantt ctccccanc taccaaagtn tgnatagcat tttntttng 780
 cacnatttc actngtacc nnnatntgga nctnncccc nccttccan ctnattgcc 840
 natataccgt catcctntnt aattcgnnnn acaccnacan nagnccngg ttcttnncna 900
 ctntctttt ttccnacnn ntngtcgngg nngcncttn nctngcgntt nngantcaac 960
 tngccngngc ttnnccctnt atnantcntn tanncccttn ntgnacggcg ggcgnntntt 1020
 agnntcttcn nactngntna gttnaagctn attagctntt nntaaccgat nnannactat 1080
 ntnattntac ntctgtcnc ntcgactatn cacantgcta cnnngcntaa ctcttntta 1140
 tantgngnt tcnnagctag nctctaactt ntgatgtanc gngtnnnnan cgctcnggg 1200
 tgattttacn canatcnna antattctct cgcgatnann ncnggttcnc gtnngnnnga 1260
 tntgnntctt anagnctnat naggactntc taaanntnan acntgancg 1309

<210> 1005
 <211> 981
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(981)
 <223> n is a, c, g, or t

```

<400> 1005
gcctatnngg agctncatcn cngtggcggc cgctctagaa ctagtggatc ccccgggctg      60
caggcanntg tnnagggggc acagcaagag ccgccccag gaaccacaga ccagtagag      120
acctggctgt ccccttgggc atggcctctc tgccctctgg acctgtcttc catcaggaga      180
aaccactgag atgggtcccc ttcccccaat gccacatacc acaaggacag ggctcatagg      240
ccctcttctt tgccaatctg attcagggcc tcgggtggag tgaggaaggg aggccccacc      300
ccccagcct tcagcgtcaa gctgggcaga ccaggaggt gtgccccga tgaggaccca      360
gctgcggtga cccctctgcc cccttctacc tcgccatcag ctccctaccc agcttatcag      420
ctgggtctca cctgccaccc tcttgccctg ccagtgggaa gtgcaggag atgggaggag      480
gacctagcac acaagtaggc cctcaataaa agctggctgg tgttgactt taaaaaaaaa      540
aaaaaaaaan taangggggg gcccggnccc canttncnc ntnaaggggn gtncgaataa      600
catttgntnn tnttntnnnn ntntttctgt nnnnaccnat ncntcnnnn nttnntccc      660
nnnnntnngn ntctacttct ctntatntct gtnntntntn ttncntttt nctnttcnc      720
nattnnntgn ttntntntnt ttnnngngnt ctngntntt atnngnnttg tctnnaacn      780
ttntntnnn cntagnggan cccttgncn nnggnntnta attcanntat tntntnnn      840
nnnantctc ttntnnnnnc ttncennatt ntnttttnc nnnntcantn ttntnctn      900
ntntncttn nctntntntc tcnnttttn nngngnnn gntcattnc acnnnnnnnn      960
ttcnacgtgt cgnggggtgcc c                                          981
  
```

<210> 1006
 <211> 981
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(981)
 <223> n is a, c, g, or t

```

<400> 1006
gcctatnngg agctncatcn cngtgggcggc cgctctagaa ctagtggatc ccccgggctg      60
caggcanntg tnnagggggc acagcaagag cggccccag gaaccacaga cccagtagag      120
acctggctgt ccccttgggc atggcctctc tgccctctgg acctgtcttc catcaggaga      180
aaccactgag atgggtcccc ttcccccaat gccacatacc acaaggacag ggctcatagg      240
ccctcttctt tgccaatctg attcagggcc tcgggtggag tgaggaaggg aggccccacc      300
ccccagcct tcagcgtcaa gctgggcaga cccaggaggt gtgccccga tgaggaccca      360
gctgcggtga cccctctgcc cccttctacc tcgccatcag ctccctaccc agcttatcag      420
ctgggtctca cctgccaccc tcttgccctg ccagtgggaa gtgcaggag atgggaggag      480
gacctagcac acaagtaggc cctcaataaa agctggctgg tgttgcaact taaaaaaaaa      540
aaaaaaaaan taangggggg gcccggnccc canttnencc ntnaaggggn gtncgaataa      600
catttgntnn tnttntnnnn nttnnttcgt nnnnaccnat ncnntcnnnn nttnntccc      660
nnnnntnngn ntctacttct ctntatntct gtnnntnntn ttncnntttt nctnttcncc      720
nattnnntgn ttntntntnt ttnnngngnt ctngntnttt atnngnnttg tcctnnaacn      780
ttncntnnen cntagnggan cccttgncn nnggnntnta attcanntat tncntnnen      840
nnnantcttc ttnnnnnnnc ttncnnatt ntnttttnc nnnntcantn ttnnncnctn      900
ntnnencttn nctnnntntc tcnnttttn nngngnnnch gntcattncn acnnnnnnnn      960
ttcnacgtgt cgnggggtgcc c                                          981
  
```

```

<210> 1007
<211> 1025
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(1025)
<223> n is a, c, g, or t

<400> 1007
ttganaanat ctggagctcc accgcggngg cggccgctct agaactagtg gatcccccg 60
gctgcaggaa ttcggcacga gggtnacgtt ggtgctcccg nacccaaagg tgctcgnngc 120
agnnctngtc cccctggngc tactggtttc ccagggtgctg ctggccgagt cgggtcccc 180
ggccccctctg gaaatgctgg accccctggc cctcctggcc ctgctggcaa agaaggcage 240
aaangcccc gcgngagac tggccccgct gggcgtnccg gtgaagtcga nccccctgnt 300
ccccctggcc ccgctgntga gaaaggagcc catgngctg acggaccttg cttgaanttc 360
ttggcactcc tggacctcaa ggttttgctg aacagcgtgg ngtggncgnc ctttcttggt 420
naaaaaggaa aaagaggctt cccttggtcn ttcctgggcc cctttggtga aaccgcgcaa 480
acnangtnct ttttgaacca gnnggagaaa cgtngccccc cttggtacca atgggcccc 540
ccttggttg gcttggaaac ccccttggtt aanncttggc cgttaaggg aacttccttg 600
gtgnttttaa ngaattnccc ttggaaaaaa atggttnttt tttnncccc caanggggna 660
nccnnngggn gaaaaaccgn tcctttggtg naaccnctt tgcncctttt tgnnogcttt 720
nccggggggg ccccnngggc nttnttgga cttntenggc nccncccc ccccccccc 780
ccccngaaa ccgggcctgn ttggtncctt ntttngancc canttgggcc ccgttnggtt 840
nnccccnggn ccccccttn gaaancccaa ggccccctn nggnnaaaa gggttnnnaa 900
naangcaaan aanggcctaa cnaaggcntt tnnggntcn cccggggant ttttnggnt 960
tttaagggtt cccccggcc tttncgggtt ttttgggn ccccccccc ccccccccc 1020
ccttt 1025

```

```

<210> 1008
<211> 913
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(913)
<223> n is a, c, g, or t

<400> 1008
anaaaactgg actccccgcg gtggcgggcg ctctagaact agtggatccc ccgggctgca      60
ggnnnggtct gggngncnng tgctccaagg aagtagccac tgccatccgn ggggccatca      120
tcctggctaa gntgtccatc gtcctgtgc gaagaggcta ctgggggaac aagatcggtg      180
agcccnacan ngntccttnn nangggactg gccgatggan atcnttntctg ntgcgcctca      240
tcctgcccc cagaggcact ggcacgtct cgcncctgt gcccaaaaaa ntgntnttga      300
tgnnccgatt ngncgactgn tncncttctg ccaggngctg nactgcnncc ctgngnaant      360
tcancnangc cacttttgat gccnttttnc agacctatng ntacctnacc cctnacctnt      420
gnaaagagac ggtnttcacc aagncctcat atcangaatt cactgaccat cttgngaaga      480
cccacaccag agtctccgtg cagaggacac aagccccagn tgtaaccncc anataatttt      540
ataaaggga taataangtg antgaaaccn tgtgnnngna gtgnngnntn nangttgggg      600
ggggggcccng ccatttttga cncnagggg ggcttnaaaa annnnnngcn nanaggaact      660
gtngccacgg gtgcgggggtg ngncntgaac cctgncanca tncctttnga ggtggnancn      720
ccancncatn ggnaancctt ttattnttnn caaaaacccc cttctngccn gaaannggt      780
tttaattnt nccnccgga cangccttt ncggggaacc aaaaatttcn ngaaaaagna      840
aannnnggnn tnggnntnaa naaannttnt ttttttttnc aaaaaaaaaa aaaaaaaaaa      900
tnnggggggg ncn                                                         913

```

```

<210> 1009
<211> 968
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(968)
<223> n is a, c, g, or t

<400> 1009
nnacagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg      60

```

caggaattcg gcacgaggat ggctttaggg atggagatgc tgcttgagga gccgcgagat	120
aagtttttct attaaaaaag ataggcggtta gtgtatttct ttagggatta taagtagtga	180
aaatacggag atactgcttt gcattaagtt cttagataaa ttttagggaa aatatgaaga	240
cttaaagagt agttggagaa aggaagaggg aagaaaaaag ataattttag aacctgaggg	300
aggttaagag ctgaaatfff ttcattggagt gaaaaattta aaagaattga tgagctagga	360
ctgcaatgtc tggatttttt ttttaaagcc ttaacttgaa gggcaacctt ttaccttaac	420
attaaaacgt tgggttacgt aaatcgaacc taancgtttt aaaagggtga gttgtaggtg	480
attaaaatac tacaaaggcc atcttaanat ttacctgaag gnggtttcag aaataatgcc	540
ttcanattcn cggcgcagta aaaatggcgt catfittgaag cctgcttgat actaaggctt	600
tgtttggtta aagttgaccg gaaatattag gaatgggagg gaaagaaaat tggaaagtft	660
gaagtgggaa aatttcggaa aaacagaagt nccgggaagg nggaanaaaa aaccttggag	720
aagaattngg aggttccccg ttttaaaaaa aaaaaacctg ggcttacggg aaccggncc	780
caaaaanaac cttcgnnaaa aaaaattggg cnaaatttcc ccagnnggcc ttcaananct	840
canggggttt cccaagneng ggcccaaana aaaaatnggc ngggttnttt tttcnntnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnannn	960
cnncccn	968

<210> 1010
 <211> 893
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(893)
 <223> n is a, c, g, or t

<400> 1010	
tnnancaaag ctggagctcc accgcggttg cggccgctct agaactagtg gatcccccg	60
gctgcaggaa ttcggcacga gggagaaggg ttaattttcc tgagtttgga tagttttgag	120
ccottgactt taatttcatt gccaccactc aaatctctta gcacattgct taggattaag	180
gatccaaaaa tgctatctag agagttgcta gtggtgttga acaatgcaag tttttattta	240
aaagagctct gcaactgccat ttatgaaagc ctctttatga tgtttgtttt gttgtcattt	300
ttgttcttta caccaagaaa ttgtatgtac aaatatgcag agaacatata ttgcctctgc	360
ttttatcagg gcgctcacc ctggtacttc gtatataaaa tgtattaaaa ctgggatttg	420

ttaccagttg ctgtattttg tatatagaat ttttataaat tgtatgcttc agaaataatt	480
tattttttaa aaataaatta aaaaatttaa atccacatcc atggtacacc tttcttgctt	540
gaaatgtaaa gaatccattt gtcaccaggg atccagaacc ccatcaattg tgaagtttgc	600
tctatctaga acagttttaa aatgtcagtg tattttatag atttgaagtt aacattctta	660
ttttcaagan aatttatgaa cattgtagaa atgtataaat gcatttncca actggcttaa	720
acattggant tttatagact taaaaaaaaa tncatgttt aagtnnnnnn nnnnnnnnn	780
nnnnnnnccc tcgggggggg ggcccgacc ccaattnccc ttttaggggg ggnnnntaan	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnn	893

<210> 1011
 <211> 970
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(970)
 <223> n is a, c, g, or t

<400> 1011	
aaagctggag ctccccgagg tggcgggcgc tctagaacta gtggatcccc cgggctgcag	60
gaattcggca cgaggagant tttttttttt ttttttnnc cnccttnaat tttntttng	120
nttttttnaa ngnggccnnn ncccaanttt ntctnttng cntntttnt ttnatttatt	180
tnnttcnnnn ncgnnnnttt ntngatctn cctaaaaaa anngggnacc ttngggncn	240
ttttttttta annnaannc nanggnccc ntaacctnt naaattngga anntttaacc	300
cnncccaaag ggnaaggggg ttncnaaaa ncccttnggg naaannaaag ggtgnttttn	360
taanccnccc cnnanggggn gnnacnnann atngatgccc caggacacag agacttcac	420
aaaaacatga ttacaggcac atcccaggct gactgtgctg tcctgatcgt tgctgctggt	480
gttggtgaat ttgaagccgg tatctccaag aacgggcaga cccgtgagca tgcccttttg	540
gcttacaccc tgggtgtgaa acaactaatt gntggcgtaa acaaaatgga ttccactgan	600
ccccctatan ccagaagaga tacnaaaaa ttgntaagga agncancacc tatattaana	660
aaattggcta caaccccgac ncagnancat tngngccaat ttctggctgg aatggngaca	720
acatgctana accaangcta atatgcctg gnncaaggga nggaaagncc cccnnnggac	780
ngnangccnn nggaccnccc tgctggaacn ntggnatngn ntngccnncn antnnnccca	840

ctnganaacc cttgcgnnng ncnntccagg angnnnntaa aannggnggn nnnngncnng 900
 ncccngnggn nnnnnnngnn nncngnnnnn cnnncccnng nnnngngggn nccnnnnnnn 960
 nnnnnnnnnn 970

<210> 1012
 <211> 968
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(968)
 <223> n is a, c, g, or t

<400> 1012
 ncaaaanctg gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct 60
 gcaggcgcca tgatcgctt tgtcgcctg cccagcctca aggtctctctg cctgcttctc 120
 tcagggcttc tcattctacga tgtcttttgg gtgtttttct ccgcctacat ctttaatagc 180
 aacgtcatgg tgaaggtggc cacgcagccg gctgacaatc cccttgacgt cctatcccgg 240
 aaactccacc tggggcccaa cggtgggcgc gangtccgc gcctatctct gnetggaaaa 300
 ctggtcttnc ctanctncac gggcagccac ttntntatgt tgggcatngg anacatcgtg 360
 atgcctggac tctgntgng ctttgnctg cgttatgaca actacnagaa gcaagccagc 420
 ggtgactcct gcggtgcctn cggaccgcgc aacatntncg ggcgcatgca gaaggnttcc 480
 tactttcatt gcaccctcat tggatacttt ggaggnetgc tcaactgcgac tgtgggcgtc 540
 ttgaattcac cgancananc caanctggc cttctctatt tggtgccatt tacncttatt 600
 gccactctc acgaaaggcc tatttaaagg gngacactac ggcgaatgtg ggggcttgag 660
 ccatttncac tccaanatcc accaagatcc ccgattcctg ggaagtatga tggatnacag 720
 cggggcganc nagaaanggg gcctctcana tcenttttct gttnaaacgt ggtgggnttt 780
 gtttnccttc ttaaaagntg gncctggnt aacttccgga anangcanc tgtgttaaaa 840
 gaacttgccg tggtgcccn naattttnc attnttangg aaagcgaagg tggctnggaa 900
 accctgcnn ggnttncct ttcttnttac ctngccggcc ggnaaaagg gnnagccncc 960
 ctcentcg 968

```

<210> 1013
<211> 955
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(955)
<223> n is a, c, g, or t

<400> 1013
ttnagcnana tctggagctc caccgcggtg gcggccgctc tagaactagt gggatccccc      60
nggcttgngg gnagntgtcc aggggggcana gaagaacccg ccccnaggaa ncnnaaancc      120
nanaaaaanc tggntngncc cttgggcntn ggcnttttng cctttgganc tngcttncat      180
taagnaaaac cnntnnaaag ggnncccttt ccccaatgnc ncatnccana aggnccgggn      240
ttatnagccc tttttcttng caatntgant caaggccttn ggtggantga ngaaaggang      300
gcccaccccc ccagccttta acgtnaagct gtgcacacac cangaggtgt gcgccccgat      360
nagagacaca cactgtggng acacctctgt ncccttttan ntctccatan agatcnctan      420
ncagnttata ngntgggtct cacntgncac cctcttnnct gngcacnggg aaatgcncgg      480
agatgggagg aggacctatc acacantagg ccctcaataa aanctggntg gtggtgcaact      540
ttaaaaaaaaa aaaaaaaaaa ctcnnggggg ggccnggggn ccaatttncc tttaaggngg      600
gggttttaaan nnnnnnnnnn tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      900
nnnntnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnn      955

```

```

<210> 1014
<211> 955
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(955)
<223> n is a, c, g, or t

<400> 1014
ttnagcnana tctggagctc caccgcggtg gcggccgctc tagaactagt gggatccccc      60

```

```

nggcttgngg gnagntgtcc aggggggcana gaagaaccgc ccccnaggaa ncnnaaancc 120
nanaaaaaanc tggntngncc cttggggcntn ggcnttttng cctttgganc tngcttncat 180
taagnaaaac cnntnnaaag ggnncccttt cccaatgnc ncatnccana aggnccgggn 240
ttatnagccc tttttcttng caatntgant caaggccttn ggtggantga ngaaaggang 300
gcccccccc ccagccttta acgtnaagct gtgcacacac cangaggtgt gcgccccgat 360
nagagacaca cactgtggng acacctctgt ncccttttan ntctccatan agatcnctan 420
ncagnttata ngntgggtct cacntgncac cctcttnnct gngcacnggg aaatgcncgg 480
agatggggagg aggacctatc acacantagg ccctcaataa aanctggntg gtggtgcact 540
ttaaaaaaaaa aaaaaaaaaa ctcnnggggg ggccnggggn ccaatttncc tttaaggngg 600
gggttttaaan nnnnnnnnnn tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnntnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnn 955

```

```

<210> 1015
<211> 1030
<212> DNA
<213> Bovine

```

```

<220>
<221> misc_feature
<222> (1)..(1030)
<223> n is a, c, g, or t

```

```

<400> 1015
ttganaant ctggagctcc accgcggtgg cggcgcgtct agaactagt gatcccccg 60
gctgcaggaa ttcggcacga gganagcgga naagcccagc cganaacttt cangacnct 120
gtgaagcagc tccagccgag atgtgcnagg aggaggacag caccgncttg gtgtgtgaca 180
atggctctgg gctctgtaag gccggctttg cgggggatga tntcccagg cctgttttcc 240
catctatcgt ggaacgtcct cgacntcagg gagtgatggt gggaatggga canaangaca 300
gctacttggg tgatgaanca caaagcaaaa gaggaatcct gaccctgaag taccgatag 360
agcacgggca tcatcaccaa ctggggacga catggaaaag atctggcacc actctttttt 420
acaatgagcc tttnggtg nccctgaana agcatcccaa cnttntaac cgaaggcgcc 480

```

ccttgacccc caaggccaac ccgggagaaa atgaccaga tnatggtttg agactttcaa	540
tgtcccance atgtatgtgg ctattcangc gngccttgcc cctntacgcc ttttggacgc	600
acaaattggc nnttgngcct ggacttttga anatggggtc acccacaacg tgcccccttct	660
tttaagggct accccccttg ccccccncc attattgccg tttgggaccc tggccttgcc	720
cgaaantntc ancccgnta cccttattga aaaantnctt gaccgaacc ganggctttt	780
ttcttttng aaccccccn tngaccngtg aaaaattggt cccggggacc tttaaagggg	840
aaaaaacttg nggcttacn taanccccct ggganntttt taaaaantga nanaggggcc	900
nctttgncg nattntttt ttctttccc ntntnaaaaa aaanttttt aaactttncn	960
ttnngggnc cgggtgatn ncnnttttng gaaaaagaac ggttttccc tttcccctt	1020
tanaaacnt	1030

<210> 1016
 <211> 949
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(949)
 <223> n is a, c, g, or t

<400> 1016	
ttnancaaag ctggagctcc ccgcggtggc ggccgctcta gaactagtgg atccccggg	60
ctgcaggaat tcggcacgag ggccatgggc cgcgtgattc gtgggcagag gaagggcgcc	120
ggctccgtgt tccgcgcaca tgtgaagcac agaaaaggcg ccgcgcgcct acgcgccgtg	180
gatttcgccg agcgacacgg atatatcaag ggcacgtga aggacatcat ccacgaccg	240
ggccgcggag cgcctctgc caaagtgggt ttccgggac cgtaccgttt taagaagcg	300
acagagctgt tcatcgctgc tgagggcatc cacaccggcc agtttgtgta ctgcggcaag	360
aaggcccagc tcaacatcg caacgtgctc ccggtgggca ccatgcctga gggcaccatc	420
gtgtgttgc tggagganaa gcctggtgac cgaggcaagc tgcaagagcc tntggaaact	480
atgccacagt catntnccac aacccttgan acaanaaaaa cgcgagtga gctgccttcn	540
ggctccaaaa aggtcatntt cttttgcaa canaactgtg gtcgttgtgg tggctggang	600
tggcncatt gacaaancca ttntgaagc cgcccgngcc tcccaagnt taagggnaaa	660
aggaacttgg tggncncngg tgcngggngn ggncatnaaa ccttggnagc cnttccttg	720

gnnggggnaa ccncaaccaa ttnggggaaan ccntttttnt tttcnaaaaa anccccctttt 780
 tggccggnaa annggggnntt anttttttnc ccccnngaaa gggccntttt cnggggaaac 840
 caaaaatttg cccggggaaa agggnaaact tnggggttng gggttnaann aaaagctttt 900
 tttttttttt tcnaaaaaaa aaaaaaaaaa aaaactttgg ggggggggn 949

<210> 1017
 <211> 977
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(977)
 <223> n is a, c, g, or t

<400> 1017
 ttnnanaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg 60
 ggctgcaggg gagacgcgag cagctgtgtc tccggcaact gaggtagagg ttttaactgtc 120
 gtcccggcgg agcaagtcaa gacacatcta cggccgtctg ggccagtgtt gggctctcgt 180
 agcctgtaaa gatggtgttg ctacgatga tcgcccagagt ggccggacggg ctcccgttgg 240
 ccgcctcgat gcaggaggac gaacagtctg gccgggacct tcaacagtac cagagtcagg 300
 ctaagcagct ctttcgaaag ttgaatgaac agtcccctac cagatgcacc ttggaagctg 360
 gtgccatgac ttttcattac attattgaac aaggagtatg ttatttggtt ctgtgtgaag 420
 ctgccttccc taagaagctg gcttttgcct acctagaaga tttacactca gaatttgatg 480
 aacagcatgg gaagaaggtg ccaactgtgt ctagacccta ctccctttatt gagtttgata 540
 cctacattca gaaaaccaag aagctttaca ttgacagtcg tgctcggaga aacctaggct 600
 tcatcaacac tgaactgcaa gatgtgcaga agaatcatgg tggcgaatat ttgaagaagt 660
 gttacagcgg ggaagaaacc gcttttcaag cantggattt cgaaggctaa caattttgtc 720
 cagtctggtg ccaaaaaaat acccgncagg gatgccaaag tacnttgaaa catgccgntt 780
 cacnttaccn cccaaacntt ggcagcagga agctgggant tttttcatca tgggtaaaaa 840
 aggggatgng nccccctntt ggggggcntg ggnaantaat gnaatncccg tcccctgggc 900
 aagggganaa accttnaaaa ccccgngng gggtnntntt ttaaggnaaa cttgancccc 960
 ccaaaaaatt ntntntt 977

```

<210> 1018
<211> 914
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(914)
<223> n is a, c, g, or t

<400> 1018
nncaaantcg gagctccccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg      60
caggaattcg gcacgaggat tataagttac aatggaaggc aacttcatga attagatggg      120
ctactaattc aatgtaatga accacacacc aaaataaaca gtagaagggtg cttgtaattg      180
ttgagagaaa ttaacaaagt agaaccatgt tgttggttcag tcgctaagta gtgtccaact      240
ctttgcaacc ccatgggctg aaacacatca ggctcctctg tcctccacta tctcctggag      300
tttgcttaaa ttcattgtcta ttgagttagt gatgccatct aaccatctca tcctctgttg      360
tcccccttct cttttgcatt cagtctttca cagcatcagg gtcttttcca gtgagtaggc      420
tctttgcata ggggtggccaa agtattggag cttcagcaga aacattcgat ccttaaactg      480
agtactgtct tagtttctct gggctgcctt aacaaagcac tacatacttt aaaccaacat      540
actacatacg ttaaaccaac aggcagggtt gttcccttca gagggccatg agggggaatc      600
tgtcccangc ctctctccta acttctcttg gtctcctggt catctttgac tggccntggc      660
atgtaaatat ctactccag ngctctgnct tnccttgaca ttctctcaag tttcttcaca      720
taagtctacc tgnatgcatt ggtctntttt tgggggncca gntttctttc ctttttataa      780
aggactncaa tcctggtnng atgaagccn cccctttttg anccatcatg gacttggata      840
cccttgggaa aagggccgga nttttccnaa aaaaaancc ccctttttga nggttnttgg      900
ggggttaagg ncac                                                                914

```

```

<210> 1019
<211> 985
<212> DNA
<213> Bovine

<220>
<221> misc_feature
<222> (1)..(985)
<223> n is a, c, g, or t

<400> 1019
nnnatctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc cccgggctgc      60

```

aggaattcgg cacgagggtt ggcttcgtat cgtgggctcg tccgctgtta cccacctacc	120
agagcccttc cccgcggggc gggacctcgt aacggccaac tcctttccag ctgaagaaac	180
acttaagttc tggaaatagc gaccagtat catggctggc agccctaatag aagattcaga	240
aggaagccga attacttacg tgaaaggaga cctatttgca tgtcccaaaa cagactcttt	300
agtgcattgt atcagtgagg actgtcgaat gggcgctggg atagctgtcc tcttcaagaa	360
gaaatttgga ggagtgcagg aactgttgaa tcaacagaaa aagtctggag aagtggctgt	420
tctgaagaga gatgggcgat atatatatta cctgattaca aagaaaaggg cttcacacaa	480
gccaaacttat gaaaacttac ggaagagttt agaggctatg aagtccatt gtctgaagaa	540
tggagtcacc cgacctttcc atgccaagga tcggatgtgg tcttgatcgt ctgcaatggg	600
aaaattttatc cgcaataatt gaggaggtct ttgaggcaac agacatcaga attactgngt	660
acacactctg aacagaagag cattttggat gtgtctacct tctgcatcac ctgggccaca	720
ggactggagc aaactgacct taaaatggtc agaggacccg tttcttgnga agtagtctgg	780
gttacangnc naacctgggt tgctgtattc ntcangattg aatgggactt ntgggaggag	840
gggttcttgt gcttaggaat tttntttttt caggaangga anggggangg gaccaatntt	900
gggconagga cccctttttg ctngggaang ccttggaat gggtttgggt tgccctaggg	960
gggancttg ggttttctg ntnnt	985

<210> 1020
 <211> 977
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(977)
 <223> n is a, c, g, or t

<400> 1020	
aaanctggag ctccaccgcg gtggcggccg ctctagaact agtggatccc ccgggctgca	60
ggaattcggc acgaggctga tttttttttt ttttttngt tttaatggnc aaggngnnta	120
anttnaaaa nnannncng ncnngncnt ntgttnaaag ccnttaann atttnttna	180
tntaatntgg atnnnttaac cgttnnaang gncntttaaa actntccnta aanttcnntn	240
aggaaaaagg gantttgna ntntgngngn gccngggnc aanggnaaaa aacaaaaaa	300
aaanccccag ggnaangga aatcccntaa cntnaaanca tttnnnaaaa gggcttnnga	360
ngttttttnn aaanagggcc tnnannaggg aanccanttt tttttgaccn nnttntncnn	420


```

ngccaanaan aaaggagtn ttttnaanta accnttccca gttnanggac cagcccagna 480
ttcttcattn caagccctcn atnagncctt gngggaccca aggggcaaaa cctgtgttcg 540
gaaaagggtt cntaggttgg gaaaggccca aagcattttt nccccccatt ccagnngggt 600
taggaccccc cccccaatnt taacaatggn cccancccg ttttttccg gnatgccccn 660
nccnccccn aaatgancct gcaccggggg gggcccggn cccaattcn cccttaaagg 720
ggaggnnnnn tnaaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnnnc 977

```

```

<210> 1021
<211> 938
<212> DNA
<213> Bovine

```

```

<220>
<221> misc_feature
<222> (1)..(938)
<223> n is a, c, g, or t

```

```

<400> 1021
caaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagggt cccgtatgtg gcccaagaga tccaggagga aatcgatgaa 120
ctgcttcaag aacagcgagc cgacatggac cagtacggca gcatcagcca tggcatcgtg 180
gaggtcgacc cgatgctcac cccagaagag cgtcacctga gcaagatgca gaaccatggc 240
tacgaaaacc caacctacaa atacctggag cagatgcaga ttttaagcggg ggaagcgcan 300
cgccagtgga gggaggntgg gcgggcagca gacgtccaga ggtctggatg gacgatggac 360
cgacagtgac ttccagagga gttcctcgac actcagatct cctggaacat taagactatn 420
aagtactact gtagagtcac aatttccatt cttttaaatg ggcgaaaaaa tgттаатата 480
acaatatatg atatataaac cttaaatgaa caaatgatct attgcagaaa aaaaaaann 540
ananaaannn aanaaaaaaa aaaaaaann tnnngggggg gggggngggg ncccaantnc 600
ccnaatggg ggggggtntt anannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	780
nnnnnnnnnn nnttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnc	938

<210> 1022
 <211> 1026
 <212> DNA
 <213> Bovine

<220>
 <221> misc_feature
 <222> (1)..(1026)
 <223> n is a, c, g, or t

<400> 1022	
tnagncttat agtgangtng nattncagtg gcggnccgct ctagaactag tgggatcccc	60
cggcntgnag nanttcggca cgaggntgan tentattnt tnttncgctt tctacggccn	120
nngannccnt tttnnnantn nntccncccn nctggcaaata nncngggnaa acctttaaan	180
atttnttttn nttnggntng gcccttnagg ctngtnangg nnttnnaaaa ncncccttca	240
nnttncttgg gngnaannng nnaatgcan ctnttnncgg ngaaggggnt aaacgggnact	300
nacgccnaaa ancatgnaaa cgnggcctct cncctctcta ntntnnaaac aattnttctn	360
naggncnttt nntttttntc acaaaaaggg gtntnacaga gggagncccc attttttnnn	420
ttnaagattt tntgngccca naanangann gggntttttt ataanngcnn tacctgtgtg	480
tggaagaccc ccnнанангn cttttttttt aaagnagggtg nntnggancn cntntntgga	540
ganacganng aggaaaaacn angnttcnc aaaaagnttt ttntttntcg nngnaanac	600
tccctttnt actcttttnc ccncannct gtngngntn nttnnnacc cccccaant	660
ttttttanaa anatacnncn cctctttttt antttcntgg ggaggaacnn ccccccccc	720
cancatggaa nntcccnag gtnggggggg gncnnacccc cennncaactt ggttttat	780
ttanaagnn ngctatgann nncanntann gntntcgttt tntntnnaac ncnaatctt	840
naattntcnc nccccnnnc tngcntctgg tcnnttntc tancctcatn nccttcnngn	900
tnnantnnnt tcncccantn nantttncgg acctannnaa anaanntctn tnnccctcnc	960
aagaaangnt aatttccttc nnnanncnct gaattcnct taatntntcgn cnntntntat	1020
ttncgg	1026